The Mining Journal RAILWAY AND COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 651 .--- VOL. XVIII.

LONDON, SATURDAY, FEBRUARY 12, 1848.

PRICE 6D.

Stannaries of Cornwall-In the Vice-Warben's Court.

HILL v. VIGERS,
IN RE POLDEROU,
OTHERWISE SAINT AGNES CONSOLIDATED MINES.

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OTHERWISE SAINT AGNES CONSOLIDATED MINES.
ON AND ECONOMINES, MINING MACHINERY, MATERIALS, and OTHER EFFECTS,
ON AND ECONOMINES, in the parish of SAINT AGNES, within the said Stannaries,
wertised to be held on the 18th day of February inst.

IS POSTPONED.

UNTIL THE FOURTEENTH DAY OF MARCH NEXT.

HODGE & HOCKIN, Sailetberg, Trans.

HODGE & HOCKIN, Solicitors, Trure,
For GRYLLS & HILL, Solicitors, Heiston.
Dated Regisirar's Office, Trure, Feb. 8, 1848.

HARROWBARROW OLD MINE, CALSTOCK.—
SALE, BY AUCTION, OF VALUABLE MINE MATERIALS,
Vithout reserve, for which payment will be received in approved bills, at 3 months' date.
TO BE SOLD, BY PUBLIC AUCTION, by GEO. CARNE, at HARROWBARROW
LD MINE, in the parish of CALSTOCK, on Tuesday, the 16th of February, at Eleven
relieck in the forenoon precisely, the whole of the valuable

MACHINERY AND PLANT:

eleck in the foremost precisely, the whole of the valuable

MACHINERY AND PLANT:

Comprising excellent capstan and capstan rope, about 100 fathoms; shears, pulleys, disheaves; 2 horse-whims, whim-ropes, poppet-heads and stands, and bearings, main dishers and belts for machine for cleaning the, 2 balance-bobs, stands, and bearings, main dis, strapping plates and bolts, about 30 fathoms of 9-inch pumps, with windbore, working barrel, 1-pilece, clack door, and seating, complete, plunger-poles, amail shears and tringie, 3 pairs (one brass) of double-purchase blocks, large wrench and rope, several cleanage recks and tronghs, 50 fathoms inc pipe, several tons of useful from and steel, 2 cams and scales (one very large), about 20 cwts. weights, weighting stand, large bell and ulley, adapted for a factory, quantities of friction-wholes and brasses, pokes and glands, iddgr's, kibbles, hand and wheelbarrows, spare rope, Norway and American timber, oil, rease, paint, safety-fuze, nails, grates, showels, lanthorns, miners' tools, ore barrels, tar, alnor, lead, kibbles, chaim of various sizes, 8c. &c. &c. &c., the FITTINGS of SMITH'S HOP—complete set of taps and acrew-plates, 2 pairs large beliums, 2 avrils, 2 vices, ungs, horse, and a large variety of tools and useful articles. In CARPENTER'S HOP—benches, cross-cut saw, miners' and tool chests, grindstones, vats and kieves, ulls, &c.; together with the STAMF-AXLE, STAMFS, &c. Also, about FIFTY TONS 'TINSTUFF; now lying on the floors, and a variety of useful-defects.

The whele of the above valuable property is, for mining purposes, as good as new, awing been but little used, and well deserves the attention of captains and agents of inces. The mine is about 22 miles from the Tamar—is nearly adjoining the mail road on Cornwall to Devenshire—thus affording great facilities for the removal of heavy leads of machinery.

come Cornwall to Levisians.

Sees of machinery.

Full particulars may be known on application to Mr. George Carne, 20, George-street,

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Full particulars may be known on application to Mr. George Carne, 20, George-street,

any previous day, by appointment with Capt. Cook, at the mine; or at 20, George
Gatalogues seen days before the sale, on application at the mine; or at 20, George
machinery.

reet, Plymouth. N.B.—The engine has been disposed of by private contract, but the stamping n N.B. be sold as above.

e sold as above.
PERSONS having any CLAIM on the ADVENTURERS, are requested to send the ulats of their accounts to the anctioneer.
ed George-street, Plymouth, Jan. 22, 1848.

Dated George-street, Plymouth, Jan. 22, 1848.

WHEAL GRAY, in the parish of GERMOE (about six miles from Hayle).—FOR SALE, BY PUBLIC AUCTION, on Tassday, the 16th day of February, 1848, about THREE HUNDRED LOTS of NEW and SECOND-HAND TIMBER, well adapted for house-building and mining purposes.

The Sale will consesse presistly at The Octock in the forencom.

Also, FOR SALE, BY PRIVATE CONTRACT, AT WHEAL GRAY,

Solinch cylinder PUMPING-ENGINE, 9 feet by 7 feet stroke, with one boiler.

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All the strong the strong engine for the cylinder of the stroke, strong both with into-work, complete.

A large duantity of slime frames, buddles, and sheds; also, two excellent "Brunton's" Patent Frames, as well as the wood-house which contains them.

Two smiths' bellows, anvils, vices, smiths' and miners' tools, tramroad iron, new and old iron, of various sizes.

Large assortment of faggotted and common iron strapping plates.

Ten horse-whims, 16-feet cage, in good condition; about 1006 fathoms of horse-whim chain, 20 horse-whim kibbles, acrewing tools, punching-engine, pick and shovel hilts, and various other articles, worthy the notice of mine agents.

For particulars, apply to the agent on the mine; or Capt. Thos. Richards, Marazion.

TOKECLIMSLAND, CORNWALL.—IMPORTANT AND
BEAUTIFUL ESTATE ON THE BANKS OF THE TAMAR FOR SALE.
AN AUCTION will be HELD by Mr. EDWARD RENDALL, at GOLDING'S HOTEL
CALLINGTON, on Thursday, the 2th day of February next, at Three o'clock in the
afternoon, for SELLING all that MESSUAGE, TENEMENT, and FARM, called -IMPORTANT AND

afternoon, for SELLING all that MESSUAGE, TENEMENT, and FARM, called

Situate in the parish of STOKECLINSLAND, in CORNWALL, now in the occupation of
Mesars Arthur and William Kelly, the proprietors.

The extate lies within a ring times, and comprises nowly-built DWELLING-HOUSE,
BARN, THRASHING MACHINE, with every other convenience, and about ONE HUNDEED and NINE ACRES of rich LAMD, and comprises nowly-built DWELLING-HOUSE,
BARN, THRASHING MACHINE, with every other convenience, and about ONE HUNDEED and NINE ACRES of rich LAMD, acres of which are superior ordinard, it is acres
it is situated about four miles from Callington (near the celebrated Wheal Maria, Mine),
and six from Tavistock, in one of the most splendid districts of the county of Cornwalladioins the lands of Sir William Call, see the contract the Duke of Bedford.

The turnplus road is contiguous, and every facility is afforded in the carriage of manure,
sidue of an absolute term of 500 years, and land tax, to the amount of 25, is redeemed.

The timber to be taken at a valuation.

To view the premises, apply to Mr. Arthur Kelly thereon; and for all further particulars, to Mr. Bishop, solicitor, Fowey; or to Mr. Sargemboolicitor, Liskeard.

TO IRON MASTERS, TIN-PLATE-MAKERS, IRON-FOUNDERS, BOLLER-PLATE-MAKERS, &c.—A most desirable INVESTMENT IN TRADE TO BE SOLD, BY AUCTION, on Tuesday, the 29th day of February, 1848, at the CASTLE INN, in the town of SWANSEA.

Bile to commence at Two o'clock in the offernoon precisely.

All that rewly-erected TIN-PLATE WORKS, now in complete order for working—consisting of TWO NEW STEAM-ENGINES, ROLLLING-MILLS, FURNACES, Storing-rooms, Officer, and Yards—forming most coaract works for any of the above branches of manufacture—standing on about six acres of land in all, adjoining the River Dafen, with a calivay from the works direct to the port of Liancily, which is distant about two miles. The premises are held under a lease, for 99 years, at the low ground-rend of 250 a-year, with power for the leases to purchase the freshold, at a moderate price, at any time within 10 years from 1846.

For further particulars (or a view of the premises), apply to Mr. B. JONES, solicitor, Liancily.

DEAN FOREST, GLOUCESTERSHIRE.—IMPORTANT on Saturday, the itions of sale, th

hree o'clock in the afternoon, subject to conditions of sale, those ex VALUABLE COAL-FIELDS, Known as the BRITANNIA and the FAVOURITE COLLIERIES.

LOT I.

THE BRITANNIA:

Is galed to the Coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and all veins about the coleford High Delf Vein of Coal, and the coal, an

Is galed to the Coleford High Delf Vein of Coal, and all veins about 1.

THE FAVOURITE:

1s also galed to the Coleford High Delf Vein of Coal, and all veins between it and the Churchese High Delf Vein of Coal, and all veins between it and the Churchese High Delf Vein of Coal, and all veins between it and the Churchese High Delf Vein of Coal, and all veins between it and the Churchese High Delf Vein of Coal, and all veins between it and the Churchese High Delf Vein of Coal, and all veins between the Coal High Delf Vein of Coal, and all veins between the Coal High Delf Vein of Coal, and all veins between the Coal High Delf Vein of the Leat of the Coal High Park High Par

TALUABLE PUMPING AND WINDING ENGINES FOR

ALUABLE PUMPING AND WINDING ENGINES FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, at WHEAL VOR MINE, in the pariah of BREAGE, CORNWALL.—

1 80-lnch DRAUGHT ENGINE, 10-Sect stroke in cylinder, and 8 feet in shaft, main beam and caps, top nozale, spring piston and rod—all new this year; with four boilers, of 12 tons each, in excellent regain.

1 80-lnch DITTO, 10 feet stroke in cylinder, 7½ feet in shaft, cylinder, pistoa, bottom and cover, nearly new, with two bollers, of 19 tons each, and three boilers, of 10 tons each, all lately thoroughly repaired.

1 9-lnch DITTO, 9 feet stroke in cylinder, and 7 feet in shaft, without boilers, of 10 tons each, all lately thoroughly repaired.

1 9-lnch DITTO, 4 ft. stroke, with one bollers and some other parts nearly new. 11-lnch DITTO, 4 ft. stroke, with one bollers and some other parts nearly new. 11-lnch DITTO, 4 ft. stroke, with one bollers and some other parts nearly new. 11-lnch DITTO, 4 ft. stroke, with one boller, of 5 tons, and horizontal cage, complete. Secretal TONS of straight and turned STEAM-PIPES.

13-head GAST-HON STAMPS AXLES, with bearings, oak frames, &c., complete. A powerful wEiGHING MACHINE, nearly new, comprising every requisite.

An immense number of PUMPS, matching-pieces and windbores, 12 to 17-inch bore with working barrels, doorpieces, H-pieces, cases, with striffing-boxes and glands to match, from 11 to 19 inches bore, and plunger-poles, from 12 to 19 diameter. Faggotted roy and eap plates, 6, 7, and 8 inches wide, staples and glands, eyerunners, caps, saddles, troughs and gudgeons for balance and other bobs.

Application to be made to Capt. R. Blight, Jun., on the mine.

Dated Nov. 29, 1847.

N.B.—The above are of easy transit to Hayle wharfs, and from thence on ship-board, frequired.

WALUABLE AND EXTENSIVE COLLIERIES,
MACHINERY, COLLIERY PLANT, FARM, and LANDS, near ST. HELENS.
—TO BE SOLD, BY PRIVATE TREATY, in consequence of the death of the surviving partner in the firm of Speakman, Caldwell, and Co., all those old-established and well-known COLLIERIES, comprising the following SEAMS of COAL—namely:

THE LITTLE MINE, or HIGHER DELF.
THE ST. SERASTIAN MINE.
THE ST. SERASTIAN MINE.
THE ST. SERASTIAN MINE.
THE ST. SERASTIAN MINE.
THE LITTLE MINE, or TARD MINE.
THE LAGGY DELF.
THE PLAGGY DELF.
THE LITTLE MINE, or TARD MINE.
The above-mentioned collieris are in fall operation, and in good working order, producing, at present, upwards of 100,000 tons per annum, and are held under leases from various parties, and for various terms—subject to the payment of annual rents and periodical admeasurements. The quantity of coal remaining ungotten, is estimated at about 1,000,000 of tons, which are laid dry by the present immings.
The capabilities and operations of the concern may be very considerably extended, by a moderate outlay of capital, in a new opening on the deep of the present levels. The machinery and general working slock are in a very efficient state, and will be sold with the mines.

The collieries are situate on the banks of the Sankey Canal, and have a branch railway from the mouths of all the olfs. communicating with the St. Helens and Ennecorn Guro

with the mines.

The collieries are situate on the banks of the Sankev Canal, and have a branch railway from the mouths of all the pits, communicating with the St. Helens and Euncorn Gup Railway. They have been established for a period of upwards of 30 years, and enjoy an old and valuable connection amongst the glass, alkall, and other manufactories, in the immediate locality, and also in the salt districts of Cheshire, besides an extensive steam and export trade at the port of Liverpool.

There is attached to the collieries a FREEHOLD FARM, known as LITTLE COWLEY HILL ESTATE, containing 31 statute acres (very eligibly situate for building purposes), with a good HOUSE and suitable OUTBUILDINGS, now occupied by Mr. Henry Taylor, agent of the colliery, and may either be taken by the purchaser of the collieries, or the trustees will dispone of it separately.

Further information may be obtained on reference to J. LANGSHAW, Eq., of the Hollins, near Bolton-le-Moors; Mr. John Mercer, colliery surveyor, St. Helens, at whose office plans of the workings are kept, and may be inspected; or for full particulars, and to view the property, to Mr. Taylor, agent, on the premises; C. M. Robinson, Esq., solicitor, Wellington, Salop; or to J. Ansdell, Esq., solicitor, St. Helens, January, 1848.

DEMBROKESHIRE.—TO BE LET, for a term of years, the valuable VEINS of ANTHRACITE COAL and IRONSTONE, under the FARM of CRESWELL, comprising about 300 acres.—The shallow veins of coal only have been partially worked, by virtue of surface levels, but the main, or timber, vein is quite whole. The property lies on a branch of the Milford Haven, where quays, coal-yards, and other requisites for shipping, are already constructed.—The branch of the South Waies Railway, leading to Hobbs Foint, will also pass through a part of the farm.

For further particulars, apply to James Wilson, mineral agent and surveyor, Haverbordwest.—Feb. 7, 1848.

TO ENGINEERS AND COLLIERY AGENTS.—FOR SALE, at FALLOWFIELD LEAD MINE, near HEXHAM, a single acting HIGH-PRESSURE PUMPING-ENGINE—cylinder 50 inches, stroke 6 feet; TWO SETS of PUMPS, 13 and 10 inches diameter, with brass and cast-iron working barries, spears, plates, and sundry other useful materials.—Apply to Mr. George Henderson, Acombe, near the mine; or to Messra. Hawthorn's, engineers, Newcastle-on-Tyne.

TEAM-ENGINE—TO BE SOLD, a HIGH-PRESSURE STEAM-ENGINE, 18-horse power, adapted for winding and pumping, 18 inch cylinder, 3-fect stroke; ily-wheel, 15 fect diameter; cylindrical boller, 22 feet long, 5 ft. diameter, with valves, &c.—made by one of the first engine-makers.

Further particulars may be obtained, and the engine seen, by application to John Graham, the overseer, at the Rushes Colliery, or Tolerton, in the Queen's County; of William Brophy, Esq., solicitor, 14, Talbot-street, Dublin; or of Joseph Hedley, Esq., C.E., 29, Bucklersbury, London.

FOR SALE, BY PRIVATE CONTRACT—A single-acting PUMPING-ENGINE—cylinder 30-inch diameter, 9-feet stroke, equal beam, with ton boller, cisterns, spring beam, and first set of rod-shafts attached, being the engine of Wheal St. Cleer.—For particulars, apply to Capt. Osborne, Liskeard; Mr. West, engineer, St. Blazey; or Mr. Rendle, the purser, 13, Octagon, Plymouth.

CRUSHING MACHINERY WANTED.—Any parties having good and powerful MACHINERY to DISPOSE OF, may hear of a PURCHASER oy addressing, with full particulars, price, &c., to C. J. Harvey, Dolgelly, North Walter

MPORTANT MINING SHARES FOR SALE .-

Captain JOHN SPARGO amounces to his friends, and mining adventurers generally, that he is instructed to SELL SHARES in the following MINES—the qualities and prospects of which are well known to him, from his having superintended the operations therein for many months—and, in some instances, for years.

The poculiar advantages to be obtained in the present instance is, that the whole of the purchase-money is to be paid into the funds of the different mines, for the purpose of providing the necessary capital for putting them into full operation; Capt. Spargo, therefore, highly-recommends these mines, as affording an opportunity of purchasing on most liberal terms.

NORTH WHEAL FRIENDSHIP—TIN MINE.

200 (1034ths) shares, at £3 per share.

mine is in a position to ensure dividends, as soon as the necessary machinery is

A large pile of tin, of excellent quality, is now at grass: excellent stones of tin
woken at the present level; and I can undertake that returns can be made behalf the sum intended to be provided by the sale of the above shares is expended.

The mine can be worked by water-poseer.

GREAT WHEAL FREDERICK—TIN MINE.

ween it and the and contain time of sale.

When the document of the country assumence of a largest-shore, giving backs of from £600 to £800 to would do all that is necessary in this mine, end that it is one of the most carriant time of sale.

Captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the captain SPARGO is also instructed to SELL a FEW SHARES in the capta

cted to SELL a FEW SHARES in the EAST ALVENNEY MINE.

This mine is now working—the whole of the necessary machinery is erected: a shaft is sunk on the course of the lode. The quality of the tin is the finest that can be produced in Cornwall. The adventurers are now about to commence stoping on a rich course of tin, and there is no doubt but the mine is now on the over of paying ample dividends.

ALSO, AN ENTIRE TIN SETT.

This tin mine is of great promise. The whole sett will be disposed of at a moderate price.

Applications for shares in these mines to be made to

Capt. JOHN SPARGO,

Down Gate, Stock Climeland, near Callington, Cornwall; or to Mr. James Lane, 78, Old

Broad-street, London, et whose offices plans and specimens may be seen.

TO LEAD SMELTERS AND OTHERS.—WANTED, by a person of undoubted character and qualifications, a SITUATION as MANAGER, or ASSATER, to a respectable Lead Smelting firm. Has had great experience in smelting, and perfectly understands the different modes of smelting and refusing, as well as the assay of ores generally.—Letters, addressed "A. B.," care of Mr. Noah, 116, York-road, Lambeth, London, will meet with immediate attention.

A GENTLEMAN, who understands COPPER and LEAD SMELTING, in all its branches, by the reverberatory process, and who is now in Germany, studying that by the blast, wishes AN ENGAGEMENT. Has no objection to go abroad. The advertiser understands the French, German, Spanish, and Danish languages.—Letters (pre-paid), addressed "C." care of the Editor of the Mining Jourgal Secretary, London, will be forwarded. GENTLEMAN, who understands COPPER and LEAD

TO DIRECTORS AND SHAREHOLDERS IN MINES. —ASSAYS and ANALYSES of all MINERAL PRODUCTS carefully PREPARE sars. REYLIN and CHEESMAN, Analytical Chemists, &c., No. 30, Myrtic-street 's-road, Dalston.

TO MINE AND COLLIERY COMPANIES AND PRO-PRIETORS.—TWO SURVEYORS, thoroughly competent, are desirous of und aking the SURVEYS of MINES and COLLIERIES, on terms advantageous to those want have occasion for their services.—SALES or PURCHASES of SHARES in the abstended to with promptness and punctuality, on the usual commission, 3, Cannon-row, Westminster.

DE WINTON & BONE, Surveyore

MR. R. TREDINNICK, THREE KING'S COURT LOMBARD-STREET, LONDON,
Continues to DEAL in every description of MINING, RAILWAY, BANKING, INSERANCE, CANAL, and OTHER SHARES.—Statistical information afforded gratuitously, upon personal application.—MONEY ADVANCED upon the above securities.

JAMES LANE, MINING SHARE DEALER, 75, OLD BROAD-STREET, LONDON.

WILSON & FRASER, 2, WELLINGTON BUILDINGS, LIVERPOOL, and 13, EXCHANGE-PLACE, GLASGOW, have always ON SATE PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

MONEY.—MESSRS. KILLICK & CO. (late Winstarley, make IMMEDIATE ADVANCES, to any amount, on the deposit of English and Fereign Railway Shares, Serip, and Debentures, upon exceedingly advantageous terms: they also BUY and SELL every description of STOCK and MINING SHARES, at much less commission than usually charged.

6, Bank Chambers, opposite the Bank of England.

BERGWESSIN SILVER-LEAD MINES-NOTICE OF BERGY ESSIA SILVER-LEAD AILNES—NOTICE OF CALL.—The shareholders in this undertaking are hereby requested to PAY a firsther CALL of ONE POUND per share into the banking house of the National Provincial Bank of England, at Bregon, to the credit of the committee of management of this company, in two equal payments: the first payment to be made on or before the 23d day of February, and the second one on or before the 23d day of March, 1846.

And Notice is hereby turther given, that all shares upon which the above call, or either part of it, shall not be paid on or before the days above-named, will be absolutely forfeited.

By order of the committee,

January 17, 1848.

DATENT GALVANISED IRON COMPANY—TRADING under the FIRM of "MALINS & RAWLINSONS."

Notice is hereby given, that the directors have this day made a further CALL of TWO POUNDS per share upon the respective owners of the NEW SHARES, authorised to be created by the resolution of the special general meeting of the above company of the 98th of October, 1845—the said call to be PAYABLE on the 19th day of Fobroary inst.; and the shareholders are requested to pay the same into the bank of Messrs. Prescott, Grote, and Co., of 62, Threadneedle-street, London.

By order,

N. Mansion-house-place, London, Feb. 1, 1848.

TINCROFT MINING COMPANY.—Notice is hereby given, that a GENERAL MEETING of the shareholders in this company will be HELD this office on Thursday, the 17th day of February next, at Two o'clock precisely. 2 44, Finsbury-aquare, London, Jan. 39, 1848.

WHEAL BARBARA MINING COMPANY.—Notice 13 hereby given, that the AFFAIRS of the COMPANY will be henceforth COMPAUTED at the OFFICES, 4, STAMP-OFFICE BUILDINGS, MANGHESTER, in paramance of the resolutions passed at the special general meeting of adventurers, beld, pursuant to notice, on the 7th January, 1848, where all communications are requested to addressed, and information can be acquired.

WM. SHEARMAN, Purses

WHEAL BARBARA MINE-NOTICE.—That all OUT-STANDING SCRIP BE SENT into the BRITISH MINING OFFICES, No. 4, Shamp-office Buildings, Manchester, on or before the 1st of March, 1845; upon the delivery of such scrip, a transfer will be returned, according to the Cost-book Principle. 2

A SSAYING AND ANALYSIS.—Mr. MITCHELL begs to inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANUFACTORIES, that he still continues to CONDUCT ASSAYS and ANALYSES of all PRODUCTS, metallurgical and manufacturing, at his LABORATORY, 23, HAWLEY-ROAD, RENTISH TOWN, LONDON, to which address communications are to be forwarded.—Instruction in all branches of assaying and analysis as usual.

A DCOCK'S PATENT SPRAY PUMP.—This important invention having been PERFECTED, and brought into SUCCESSFUL PRACTICAL OPERATION, the PATENTEE is ready to RECEIVE, and to execute ORDERS.—Apply to Henry Adocak, C.E., at his offices, No. 2, Northumerland-street, Strand, London, where pamphlets, descriptive of the invention, may be had; at the ometion of the Mining Journal, 26, Fleet-street; and through any respectable bookseller—prices.

TO ENGINEERS AND IRONFOUNDERS.—PERLBACH'S
PATENT PROCESS OF UNITING METALS AND ALLOYS,
Described in the Mining Journal, No. 649, will be found very useful for STRENGTHENING IRON CASTINGS, by inserting bars, or pleces, of wrought-iron; and for UNITING
CAST-IRON with COPPER, STEEL, GUN METAL, BRASS, and OTHER ALLOYS,
FOR LICENSES and particulars, apply to
Mr. C. A. PRELLERS
31, Abcharch-lane, Loudon.

DATENT GALVANISED IRON AND WIRE ROPE WORKS. ANDREW SMITH begs to inform the Mining, Railway, and Shipping interests, that he has obtained a PATENT for an IMPROVED METHOD of GALVANISING, IRON, producing a much superior article at a considerable saving in cost.—the improved processes against a producing a wire rope, adding only \$10 per ton instead of \$30, under the ordinary processes. The rope is extensively used in damp situations, for mining and railway proposes, and for ships standing rigging.

PATENT METALLIC LAVA—FOR FOOT PAVEMENT,
FLOORING, COVERING OF ARCHES, TERRACES, VIADUCTS,
TUNNELS FOR RAILWAYS, &c.
MANUACTURED ONLY BY ORSH AND ARMANI.
OFFICES—6, GUILDHALL-CHAMBERS, BASINGHALL-STREET.
WORKS—(CUBITTS WHARF) MILLWALL, POPLAR.

MPORTANT TO RAILWAY AND STEAM NAVIGATION

COMPANIES, MANUFACTURERS, AND ENGINEERS.

W. BROTHERTON AND CO.'S

PATENT LUBRICATING FLUID for animal oil) FOR ALL DESCRIPTIONS

OF MACHINERY.

W. B. & CO. have the pleasure to estate, that the above article is extensively used in her Majesty's Steam Navy, and by several of the principal Steam Navigation and Railway Companies, and is pronounced by them, and by the first practical oughners of the day, to be far better adapted for the purposes of lubrication than any other article hitherto used for such purposes. The Fatent Lubricating Fluid is equally applicable for the most intricate and fine pieces of machinery, as for the heaviest bearings of the steam-engine. It is cheaper, much more economical, and cleaner than oils at present in use; is free from smell, and calculated to effect a vast saving in the expenditure of working steam powers. Further particulars can be had, and testimordials seen, by application to the manufacturers,

W. B. & W. BROTHERTON & CO., Mungerford Whart, Strand, London, N.B.—The above article will burn in lamps, and give a light squal to the best sparm oil.

FFICE FOR PATENTS, 7, STAPLE INN, HOLBORN,
J. MURDOCH (successor and late assistant to Mr. Hebert)
Informs INVENTORS and PATENTES, that, at his OFFICE, they can obtain
REFPRENCE TO A CLASSIFIED LIST OF PATENTS.
(THE OBLY ONE EXTANT), which shows at one view all the Patents over grated for siny
particular object, whereby they may save much trouble and capenae, and procure information not otherwise obtainable. BRITISH and FOREIGN PATENTS OBTAINED,
and USEFUL and ORNAMENTAL DESIGNS REGISTERED.
SPECIFICATIONS carefully prepared, and REPORTS of EMBOLLED SPECIFICATIONS furnished om moderate terms.
FINISHED and WORKING DRAWINGS executed with accuracy and dispatch.

gravel, as the most sain, easy, and effectual form in which magnesia may—and, inthe only one in which is ought—to be exhibited, possessing all the properties of the
ness now in general me, without being liable, like it, to form dangerous concretions
e bowels, it effectually cures us as reports without frighting the coats of the stomach,
dis, potass, and their carbonates are known to do; it prevents the food of infants
ing our; in all cases it acts as a pleasing aperient, and is peculiarly adapted to fes. It has long been known that the most serious consequences have frequently redrom the use of solid magnesia, which has been proved by Mr. Brande and many
eminent chemists, to form concretions in the bowels, endangering, and, is some
neas, destroying life.—Sir HUMPHEREY DAVY restified that this solution forms
le combinations with uric acid salts in cases of gout and gravel—thereby counteract
beir lajurious tendoncy, when other alkalies, and were magnesia itself, and failed.

MSIY PHILIP CRAMPTON. Bark. Surrecon-Ganeral to the Army in Ireland.

noir injustoes tendency, when other sixures, and even magnesia itself, that makes me first plant to the first plant to the first plant to the first plant to the first plant f

infinitely more safe and convenient than the solid, and free from the danger attending infinitely more safe and convenient than the solid, and free from the danger attending the constant use of soda or polass.

Letter from J. Murray, Esq., Lecturer on Chemistry, F.S.A., P.L.S.:—

"Drak Siz. Janus—Many years have elapsed since you first showed me, in your laboratories, your super-carbonate, or soluble magnesis, and demonstrated experimentally the remarkable quantity of pure snagnesis hold in transparent solution. It was then nev to me, as it was te the chemical world, and I speak advisedly, as a practical chemist. Delieve its medical value cannot be too highly estimated; and I am satisfied that the public is under an infinite debt of gratistude to you for those invalueble researches, which have been the means of its introduction. Not to mention its more obvious healing virtues, I believe it to be almost, if not altogether, a specific for little acid concretions, when used in the pure condensed solution invented by you.

"To Sir James Murray, Dublia.

The fallowing testimonial of the celebrated "Distin Family," who are well known to her Majesty and the nobility of England proves the great value of Sir James Murray's fluid magnesis, and is very encouraging for delicate persons going to sea:—

"Sin.—Having arrived from Glasgow, por the steam-ship Jupiter, in this stormy season, without the slightest sea sickness, we feel bound to attribute this exemption to the next agreement of the standard processions we were martyra to sea sickness, and we think its a great blessing that travellers most approach of the storm of the processions was were martyra to sea sickness, and we think its a great blessing that travellers more approached to the storm of the property of the stormach, but more particularly during pregnancy, fibrile complaints, infantile diseases, or sea sickness."

"The BISTIN FAMILY."

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"The bistin that exception of the stormach, but more partic

* RESEARCHES ON REFRACTORY SUBSTANCES.

AND THE RESULTS FURNISHED THEREFRON, FOR THE USE OF MINISHALOOST, GENEROY, AND MITALLOOT, ALWELL ALTO OF PACISION AND STREETS OF GENERAL TATION. BY M. GARDING ALTON AND STREETS OF THE ACADEMY OF Sciences, Jan. 24.]

Having had entrusted to my case, on diffusion to entire which I have obtained by their present time I have not discussed the uses which might be men in 1826, I endeavoured to form rubles of all sizes, my process consisted in submitting to the firm of the oxy-tylorogen blow-pipe ammonica aliam, to which had been added a few traces of chromate of potagi. I obtained by this means melted globules, composed of aliamina and oxide of chromas, having all the characters of oriental rubles. I constructed my crasible with caleined lamp-black, rendered compact by presenter, my blow-pipe formed a fame, which reached from the top to the bottom, in such a way, as to heat the gases before they passed out; in one word, the construction and dimensions of the blow-pipe were such as te give it the failest possible amount of power. This blow-pipe, which hadroot 1000, weighted almost four pounds and a half. The principal body of the apparatus was composed of two concentric cylinders, with a common foundation, weighing 22 pounds. The exterior cylinders was 31 inches in denaters, and 21 inches in height. The other common foundation, weighing 22 pounds. The exterior cylinders was 31 inches in diameter, and 21 inches in height. The other common foundation, and the other two corresponding to each other at the annular space comprised between the two cylinders. At each of these orifices was adapted a tube of 54 inches in length, drilled into a Bar of platinum. These tabes were fitted with such great precision, that the apparatus, though of the length of 74 lenks, was perfectly connected, without a particle of solder; lastly, three platinum tubes, soldered with gold, completed in longth, drilled into a bar of platinum. These tabes were fitted with such great precision, that the apparatus, though of the length of 16-n-wire. The l

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Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK. THE DAY.... Copper Miners of England Company—offices, at Two.

Taw Vale Railway and Dock Company—London Tavern, at Twelve.

Harrowbarrow (Old) Mining Company—offices, Plymouth, at Twelve.

MONDAY... London Gas-Light Company—Freemason's Tavern, at Twelve.

Termalay... Devon and Courtenay Consols Mining Company—Central Hall, Plymouth at Twelve.

TURDAY ... Devon and Courienay Consols Mining Company—Central Hall, Plymouth, at Twelve.
Gaspe Fishery and Coal Mining Company—offices, at Two. Standard Life Assurance Company—offices, at One.
County Five Insurance Company—offices, at One.
Ceyion Railway—offices, at One.
East Anglian Railway Company—offices, at One.
East Anglian Railway Company—offices, at One.
Mutual Life Assurance Society—King's Head, Poultry, at Twelve.
THURSDAY. .. Tincroft Mining Company—offices, at Two.
Northern Counties Union Railway—London Tavern, at Twelve.
Great Western Railway—Paddington Terminus, at Twelve for One.
Northern and Eastern Railway—Internation of the Company—offices, at Two.
Now South-Western Steam Navigation Co.—Nine Eims Station, at Four.
FRIDAY. .. Demerara Railway—London Tavern, at One.
Counch of England Assurance Company—emices, at Twelve for One.
London and North-Western Railway Company—Euston Station, at One.
Church of England Assurance Company—offices, at Twelve for One.
Birmingham and Oxford Railway—Dee's Royal Hotel, Birmingham, at half-past Two.
Birmingham, Wolverhampton, and Dudley Railway—Dee's Royal Hotel, Birmingham, at Twelve for One.
[The meetings of Mining Companies are inserted among the Mining Intelligence.]

COMMEDICIAL RANK OF LONDON

COMMERCIAL BANK OF LONDON. An extraordinary meeting of this company was held at the bank in Lothbury, on Tuesday last, for the purpose of electing three directors, in the room of Messrs. Rennie, Cornfoot, and Shewell, resigned.

JOHN TAYLOR, Esq., in the chair. Mr. CUTBILL, the manager, read the advertisement convening the meeting.

Mr. Cutbill, the manager, read the advertisement convening the meeting. The Chairman stated that, as this was not their annual meeting, there would be no statement laid before the proprietors on the affairs of the bank. When they had got through the business of the election, he should be very glad to make a few remarks.

Mr. Barnwell (a director) said, that, in accordance with the object of the meeting, explained to them by his friend, Mr. Taylor, he had great pleasure in offering for their election, as director of this bank, a gentleman of independent means, active habits, and extensive connections. He could assure them, that this gentleman would, and had been always anxious to, contribute all the advantages of his position, to attain that result which they all equally wished, and in which they were all equally interested, by making this bank what it ought to be, and which it assuredly would be, if their kind support, and the same caution on the part of the directors, continued—namely: a great, useful, and flourishing establishment. (Hear.) Under the conviction of aiding in the accomplishment of that result, he would now submit a resolution, that Mr. Charles Dickson Archibald be elected a director of this bank, in the room of Mr. Cornfoot, resigned. He would just mention, that Mr. Cooper was a gentleman well known to many in the City, and he was confident that he would become a great acquisition to them as shareholders.—The motion was seconded, and was passed unanimously.

Mr. W. Cooper returned thanks, and said, he thought that every shareholder, in his own sphere, might considerably forward the interest of this bank, for they could not expect that the directors only could ensure its prosperity. Much, he thought, must depend on the shareholders, who might reasonably be expected to help the directors in the bash enholder in a still more favourable position.

Mr. George Rennie, jun., observed, that having received an appointment, which compelled him to go to another hemisphere; he could no longer offer

expected to help the directors in the best way they were able, which would be by using their advice or interest to induce others to open accounts with us. With this support, he thought they would soon become in a still more favourable position.

Mr. Gronge Rennie, jun., observed, that having received an appointment, which compelled him to go to another hemisphere; he could no longer offer his services to the proprietors. After so many years of acquaintance, it was a satisfaction to him to be able to state, that he now left the concern in a state of prosperity, and he had no doubt it would continue to be managed with the same prudence, discretion, and efficiency. (Hear, hear.) He would propose, that Mr. John Alfred Chowne be elected a director in the place of himself, resigned. Mr. CLAY, M.P., seconded the motion, which was agreed to unanimously. Mr. ARCHIBALD and Mr. CHOWNE returned thanks.

The CHARBANA said, he had great pleasure in stating to the proprietors, that the progress of the bank had been very satisfactory since they had the pleasure of meeting them at the last annual assembly in July; the time they had passed through had been a very difficult and a very portentous one. He supposed, that at no period had such remarkable changes happened in the value of securities, and every sort of property, as had occurred, more particularly in the last four or five months of the past year. During that year, they had Consols at 94, and they had them at 79—they had Exchequer Bills at 15 and 20 premium, and they had them at 37 discount. All the great articles of trade, such as sugar, cotton, indigo, and others, declined in value at least 25, and some of them 40 per cent. Under these circumstances, of course, the management of a bank required particular caution. He (Mr. Taylor) was happy to say, however, that at no period, even in October or November, did their balances diminish to a greater extent than about 10 per cent. of the average amount at which they were during the last year. He had also the pleasure of statin

AMERICAN GOLD PRNS.—An active competition in the manufacture of gold pens has brought down the price-from \$10 to \$1 or \$2, according to the finish; and, as might be expected, they have got into very general use. A New York correspondent of the Charleston Courier has given, in one of his late letters, an interesting account of the invention of gold pens, and the manner in which they are made, a portion of which we subjoin:—The first pen of the sort ever used was in 1838. The idea of the utility of gold for the purpose was conceived by the Rev. Mr. Cleveland. He communicated this idea to Mr. Brown, who improved on it, and immediately went into the hurising the state of the sort of th who improved on it, and immediately went into the business. He was fo lowed by some half-dozen others. Bagley is now the most extensive manufacturer of the article, and he employs in it a capital of \$80,000. His expense are \$1000 per week. Platt and Brothers, in the early stage of the manufactur made a contract with Brown and Bagley for all the pens they made, and thu had the monopoly of the market for three years. They sold \$75,000 reasons. are \$1,000 per week. Platt and Brothers, in the early stage of the manufacture, made a contract with Brown and Bagley for all the pens they made, and thus had the menopoly of the market for three years. They sold \$75,000 per annum of this article, nearly one-half of which was profit. Bagley then went on; and has made a rapid fortune. His pens rank the first in the market, although Brown's, and the "Richelieu" pen made by Watson and Co., are equally good. In the manufacture of pens, the gold is first rolled out in ribbons, and then cut with a die to the required shape—the points put on, and then ground down to the required nib. The point are irridium, a new metal formed with platinum. The points are all imported generally, without the ceremony of an introduction to the custom-house, and cost from \$7 per oz. The pens and cases sell from \$10 to \$30 per dozen. The manufacture of silver cases is a distinct business, and employs a large capital. It is not easy to make an estimate of the number of pens manufactured per annum, but it is not probably less than 1,000,000, of which Brown and Bagley make about one-half. A person who had not thought of the subject, would scarcely suppose that 800 lbs. weight of gold were used up every year in the manufacture of such a trilling article as pens, a business unknown 10 years ago—yet such is the fact. The demand for the article is enormous, and it is now difficult to find a person who writes at all unprovided with the most economical of all pens. One export of 1000 has been made to England, where they sell for a guines each.—American paper.

A party of miners from the neighbourhood of Gwennap, for Chill, sailed from Peazance, on Tuesday, in the Corawall steamer, for Bristol, and thence will percoced to Swansea, from which place the barque Jeany Jones will convey them to their port of destination.—Peazance Journal.

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Transactions of Scientific Bodies.

The state of the s	
MEETINGS DURING THE ENSUING WEEK.	
THIS DAY Royal Botanic-Inner Circle, Regent's-park 32 P.M.	
MONDAY Geographical—3, Waterloo-place 6 P.M. Medical—Bolt-court, Fleet-street 8 P.M.	
TUESDAY Linnæan—Soho-square	
Horticultural-21, Regent-street 3 P.M.	
Civil Engineers—25, Great George-street	
London Institution—Finsbury Circus	
Microscopical—21, Regent-street 7 P.M.	
THURSDAY Royal—Somerset-house 81 P.M. Antiquaries—Somerset-house 8 P.M.	
FRIDAY Geological—Somerset-house	
Royal Institution—Albemarle-street	
SATURDAY Westminster Medical 17, Saville-row 8 P.M. Asiatic 14, Grafton-street 2 P.M.	
Annual To Manifest Col	

INSTITUTION OF CIVIL ENGINEERS.

FEB. 8 .- JOSHUA FIELD, Esq. (President), in the chair

FEB. 8.—JOSHUA FIELD, ESQ. (President), in the chair.

The paper read was "An account of the recent Improvements in the Drainage and Sewage of Bristol," by Mr. James Green, M. Inst. C.E. From this account it appears, that for many years past great reformation had been requisite in the sewage of several parts of the city of Bristol, and more especially in the localities adjacent to the course of the River Froome, whose channel had become a large cesspool, spreading miasma and disease all around. This river formerly emptied itself into the River Avon. in the city; and then all that was brought down by the stream was carried away by the tide; but, when to form the floating harbour, the old course of the Avon was dammed across by lock gates, and a new cut was made for carrying off the contents of the sewers emptying themselves into the Froome, a nuisance of the most acrious character was created, and the bed of the river became permanently affected. Mr. Wine, some years since, constructed a lateral culvert from the embouchure of the Froome, debouching in the new cut; this did partial good; but still the general state of the river remained unimproved; and, in deference to the universal demand for sanitory reform, the authorities of Bristol employed Mr. Green to devise and execute plans for the improvement of the sewage of the part of their cost exceeded the funds at the disposal of the council; so he modified them, and the result had proved most successful. The proceedings were to bring the channel of their rost exceeded the funds at the disposal of the council; so he modified them, and the result had proved most successful. The proceedings with products the proving the obstructions caused by the pier of the Castle Mil-street-bridge; lowering the height, and extending the length of the Wear at the castle most, with new flood gates, &c., deepening the bed of the upper part of the Stream, and thus making convenient arrangements for cleaning out and flushing the channel, and passing off the products through Mylne's cul The paper read was " An account of the recent Improvements in the Drainage an

PADDLE-WHEEL PROPULSION OF STEAM-BOATS.—We have received a communication from Mr. Lupton, of Nelson-square, on the subject of the superiority of submerged propellers over paddle-wheels. The remarks and calculations are far too long and abstruce for our columns; we can, therefore, only call attention to the author's ideas on the subject. He contends, that not-withstanding all that has been done, and ascertained capable of being effected, it appears, that in the use of paddle-wheels, the steam-power is employed very wastefully-equal, perhaps, to three-quarters of the whole power employed; while the maximum rate of travelling obtained is still slow—say 10 miles per hour—and which any paddle-wheel steam-boat might increase, by the adoption of these submerged propellers, of from 2½ to 3½ ft. diameter. The calculations are to prove these assumptions, from which he deduces, that the 3½-ft. propeller would perform 20 miles per hour, with no lost power.

MECHANICAL RALLWAY WHISTLE.—An experiment was made on the South-

propeller would perform 20 miles per hour, with no lost power.

MECHANICAL RAILWAY WHISTLE.—An experiment was made on the South-Eastern Railway, on Tuesday last, with a mechanical railway whistle, patented by Mr. Wells, of Suffolk-place. The sound of this whistle is produced by the action of a crank upon a couple of what may be termed air-pumps, 10 inches diameter, the pistons having a 4-inch stroke. The apparatus weighs about 1 cwt., and is so constructed, that the handle by which the whistle is worked can be easily turned by the guard while he is screwing on the break. The whistle was, in this experiment, fixed to an open third-class carriage, attached to the 6 h. 30 m. down Dover train. There was a strong head wind against the train, a circumstance calculated to test the efficacy of the contrivance. With the train partially shielded from the wind, and proceeding at about 20 miles per hour, the whistle was heard by the engine-driver, but where a speed of about 40 or 45 miles an hour was attained, the whistle was found not to be sufficiently powerful. But the power of the whistle can be easily increased, without adding to the weight of the apparatus; and it is probable that the patentee will, by a little attention to the mechanism of his apparatus, make it a very useful invention.—There is deposited in the Portsmouth Dockyard, a

a very useful invention.

NOVEL INVENTION.—There is deposited in the Portsmouth Dockyard, a working model of a "peril indicator," to denote the approach of ground to ships and steamers—the invention of Lieut. Westbrook, R.N., of the Stag revenue cruiser, on the Ryde district. The apparatus is positively too simple to describe—it is fitted to the keel of the vessel, and consists of a projection therefrom of two bars 10 ft. below the keel of the vessel; immediately these bars, which are fitted forward as well as aft, touch ground, they spring up level with the keel and ring a large bell in the engine-room, which is the signal for the engineer to instantly reverse the engines, and send the ship asteru. The invention has met with the approval of some of the members of the Admiralty, and every scientific, naval, or other person who has seen it. A trial would fully demonstrate its usefulness and applicability—its expense is too trivial to be an obstacle.

be an obstacle.

IMPORTANT RAILWAY TRIAL—A case, which has occupied the parties interested the greater part of last week, was decided at Cork, on Monday. It was a dispute relative to the value of some property of Mr. Beare's, known as the Bruin Lodge estate, which was required by the Great Southern and Western Railway Company. The claimant demanded 15,000., the company offered 5000., which he peremptorily rejected. After a hearing of almost unprecidented length, a verdict was returned for 4250.—10,750. less than the claim, and 750. less than the company's offer! At a moderate estimate of the expense, the plaintiff will be 1000. worse off than had he accepted the original offer. It is a currous fact, in connection with these trials, that had the verdict been a shilling higher than the offer—if it had been for 50051, for instance—the company would, under the law, be liable for the whole of the costs.

RESUMPTION OF RAILWAY WORKS.—The works on the Burnley branch of

RESUMPTION OF RAILWAY WORKS.—The works on the Burnley branch of he Lancashire and Yorkshire Railway are again resumed, and considerable rogress is reported. The Kitson Wood tunnel, near Todmorden, especially, as progressed rapidly since the contractors received orders to proceed, and, it present, as many hands are employed as can find room. The works are rocceeding both day and night, and on some occasions on Sundays.

PRAILWAY CONTRACTORS' TOMMY TICKETS.—At the Wolverhampton Police Court, on Wednesday last, before the stipendiary magistrate, J. Leigh, Esq., an excavator, named James Wells, summoned Mr. Stephen Moore, contractor, for 14s. 3d., wages. After hearing evidence on the point, the Bench decided Wells was entitled to the sum of 1la. 3d.; this decision throwing the costs on the defendant. In the course of the hearing, it transpired that the men's wages were partially paid in provision tickets, which were honoured at a shop of Mr. Moore's, in Horsley Fields. The magistrates strongly reprobated this practice, which he observed was a breach of the spirit, if not of the letter, of the Truck Act; and, in a town like Wolverhampton, there was not the slightest necessity for resorting to such a method of payment, the object of which was too apparent.—Birmingham Journal.

A HORER OF 100 TONS WEIGHT—PLYMOUTH IRON-WORKS.—One of the

any por resorting to suce a method of payment, the object of which was too apparent.—Birmingham Journal.

A Horse of 100 Tors Weight—Plymouth Iron Works.—One of the blast-furnaces at these works was built at the commencement of the present century; and after having been constantly burning for a period of 45 years, the works now require repair. It was blown out a short time ago, when, at the bottom, incredible as it may appear to the uninitiated, was found a "horse" weighing at least 100 tons. Beneath the huge fire it has thrived, and so increased from year to year, that the workmen have found great difficulty in removing it. So determined has it been to make a stand in its present situation, that although the firemen have been blasting it with gunpowder for the last 14 days, it has withstood alike the influence of gunpowder and heat, as though it was girded with asbestos. At length, however, another plan has been adopted by the firemen, instead of blowing it up, they have determined to knock it down. They will excavate near it, and make a trench, into which they will topple down the monster, and thus make him go. The key to this mystery is, that this wonderful technical so-called horse is nothing more nor less than a huge mass of iron that always forms itself in the farnace. This horse has arrived at the great age of 45 years, and weighs 100 tons, and is supposed to be the largest from cast on record.

Lead One in Van Dienen's Land.—We are informed that a valuable discovery of lead has been made in the mountain limestone, near Macquarie Harbour.

Stortford, Herts, has taken out a patent for applying to the tire of railway wheels, belts of hide, coming in contact with the rails, for the purpose of obtaining a firmer bite. The patentee prefers ox or buffale hide, simply dried and deprived of hair, without any tanning or dressing; this is cut into strips three-quarters of an inch wide, which are riveted together by copper rivets, forming a belt, three-quarters of an inch deep, half an inch wide, and sufficiently long to pass round the periphery of the wheel; and in joining the strips, care must be taken to break joint. A groove is made round the tire of the wheel, three-quarters of an inch deep, and half an inch wide, at that part in contact with the rail into which the belt is inserted, fitting so tight that it requires to be hammered in with considerable force. The belt is then held in its place by bolts, passing through the iron, and secured by entering 'a female screw in the tire. Two of these are inserted into holes two inches apart, where the ends meet, so that each bolt may pass through the strips at each end; the others are distributed round the wheel at intervals of two feet.

PROGRESS OF THE ATMOSPHERIC RAILWAY SYSTEM—LAWES'S PA-PROGRESS OF THE ATMOSPHERIC RAILWAY SYSTEM-LAWES'S PA-

IMPROVEMENTS IN RAILWAY WHEELS .- Mr. F. Chaplin, of Bis

Stortford, Herts, has taken out a patent for applying to the tire of railway

PROGRESS OF THE ATMOSPHERIC RAILWAY SYSTEM—LAWES'S PATENT.—Having again inspected this model while in operation, we shall endeavour to give a more concise and popular description than that which appeared in our columns of the 29th ult. The rails, about 200 feet in length, are laid on the patentee's premises to a 4-ft, gauge, with a full size waggon, or carriage, on flange wheels of the usual description, and on the ground in the open air; the cylinder, with its piston and machinery, is creeted in an out-house, and connected through the wall with a drum between the rails, around which is wound the rope, whose other end is attached to the carriage, passing along the line over suitable pulleys. The cylinder in the model is 5 ft. deep, standing vertically, and 22½ in. diameter—the piston having a 4 ft. 3 in. stroke; the area of the piston is thus 397 fs—and, consequently, on being drawn to the top, and z perfect vacuum thus obtained beneath, there is an atmospheric pressure on its upper surface of 5964 lbs., or rather more than 26½ tons. The piston is raised by two men with a winch handle attached to it by two sets of wheels and pinions, and takes five minutes to arrive at its extreme height; the shaft is then put in gear, with the drum outside, and, the piston being set at liberty, descends with great force, winds the rope on the drum, and, consequently, sets the train in motion—obtaining sufficient momentum to carry it up half the length, which is a gradient of about 1 in 15. In practice, it is proposed to have cylinders 100 ft. long, and 3 or 4 ft. in diameter—two of which, it is calculated, will carry a heavy train two miles—the distance between the stations—at each of which would be a 10-horse power energine—the object of the patentee being to make a small engine do the work of one considerably larger, by keeping it in constant action in raising the pistons between the periods of the passage of the trains. In the prospectus it is stated, "that the principle of the plan is to create, by steam, or otherwise, in TENT .- Having again inspected this model while in operation, we shall ge of the system. X IMPROVEMENTS IN WINDLASSES, CAPSTANS, &c.—Every invention and

improvement connected with our maritime interests, is deserving of the consideration and support of all in any way connected with commercial affairs; involving as they do so enormous an amount of capital invested in our merchant shipping interest, and in a great measure our national prosperity, possessing, as we do, the largest navy in the world. With these impressions, it was with much pleasure we lately inspected some working models of a windlass, and a capstan patented by Mr. Caldwell, and being now brought before the public by a company, under the title of CALDWELL'S PATENT NATIONAL SELF-FLEETING WINDLASS, CAPSTAN, AND RIDING BITS COMPANY. In the patent windlass, instead of a number of levers thrust into corresponding holes in the shaft, making a continuous succession of jerks, as in the old plan, a lever is fixed in front of a serrated wheel, on the axis of the windlass. On this lever is an arm with a catch, which, on raising the lever, takes into one of the scrated teeth on the shaft, and on pulling down the lever to its greatest extent, gives the windlass a quarter turn; there is a ratchet wheel and pall as usual. There are two sets of these levers, arms, and wheels,—by which two sets of men, raising and lowering their levers, alternately, keep up a regular circular motion, and 60 fms. of chain, weighing 10 or 11 cwts., can be got in in 8 minutes by five men—and two men can give the heaviest ship a large or improvement connected with our maritime interests, is deserving of the motion, and 60 fms. of chain, weighing 10 or 11 cwts, can be got in in 8 minutes by five men—and two men can give the heaviest ship a large or small quantity of cable as required at a moment's notice, at times when it would not be safe to veer the cable by the old windlass at all. The capstan and riding-bits are equally efficacious as the windlass, and in addition to their superiority, are some pounds less in cost than those of the old construction, while to the shareholders it is confidently estimated that a very large per centage will be returned. The capital of the company is 100,000% in 5000 shares of 20%,—deposit, 5s. per share.

IMPROVEMENTS IN BELL MACHINERY .- A patent has been obtained by Mr. W. P. Parker, of Lime-street, for an improved and highly ingenious invention for the arrangement of bells in hotels, mansions, steam-boats, ships, &c., by which, whatever number of rooms there may be, one bell will suffice; and the particular room is indicated by a corresponding number appearing on the face of the machine. It would be difficult fully to describe the invention without diagrams, but a general idea may be formed from the following description. A suitable bed, or foundation plate, is made of a size corresponding to the number of rooms, in which are grooves cut in a horizontal direction; in these grooves, bars, consisting of strips of metal properly secured by studs, slide; they are connected with suitable cranks and levers, in such manner, that when pulled backwards they immediately raise a hammer which strikes the bell; and they are, on the bell-pull being released, drawn back into their places by barrel springs. On the face of the foundation plate, which is the part exhibited to view, numbers are painted, corresponding with the several rooms, cabine, &c., each covered with a semicircular piece of sheet metal, moving on a pivot in the centre of the cord of the arc in such manner, that when the circular part is upwards, the figure is covered; but when one of the bars is pulled back in the groove, it draws down the semicircular shield, and discloses the figure at the same instant the bell is struck: on being released, the bar is replaced in its original position, and the shield resumes its place over the number. Mr. W. P. Parker, of Lime-street, for an improved and highly ingenious

the number.

New Houses of Parliament.—There are at present 1399 men engaged upon the works of the New Palace, of which number 776 are employed at the building, 120 at the quarries, 335 at the Government works at Thames-upon the joiners' works and wood carvings, and 168 upon miscellaneous w both at the building and elsewhere.



ENGLISH MINES.

ENGLISH MINES.

BARRIETOWN.—In the 18 fm. lavel end, west of Slob shaft, we have cut ofte about iff. wile, very thinly mixed with lead, taking a more northerly cetion in going west than the one we have been driving on—we shall drive few fathoms on this. The lode in the 12 fm. level end is poor, with lead inly mixed through it; in the adit end east the lode is about 2 ft. wide, my mixed through it; in the adit end east the lode is about 2 ft. wide, my seed of goesan and lead. The tribute pitches look much the same as for years weeks past. The ore over Dayle's rather improved for the length it is tribing, worth 161, per fm.—Reb. 4.

working, worth 161. per fin.—Feb. 4.

BEDFORD UNITED.—At Wheal Marquis, the lode in the 90 fm. level east of the sump winze, is 2\(\) ft. wide, and worth about 201. per fm.; in this level west, the lode is about 2 ft. wide, producing saving work; the lode in the 90 fm. level, east of Hooper's winze, is 2 ft. wide, and worth 101. per fin.; the engine-shaft is 5 fm. 2 ft. under the 80 fm. level; in the 80 fm. level as the lode is 18 in. wide, composed of spar and mundic, with spots of ore in places. The lode in the 70 fm. level cast is at present small and unproductive; in this level west, on the south lode, the lode is 2 ft. wide, composed of spar and mundic, with spots of ore in places. The lode in the 25 fm. level, east of the south engine-shaft, is 2 ft. wide, and without alteration; and in the adit level east, in this lode, the lode is 2 ft. wide, producing good stones of tin and copper ore.—Feb. 9.

CABANON UNITED. The sevent Lieuwers and without alteration.

the south engine-shaft, is 2 ft. wide, and without alteration; and in the adit laval east, in this lode, the lode is 2 ft. wide, producing good stones of tin and copper ore.—Feb. 9.

CARADON UNITED.—The reason I have not written to you before, is in consequence of having had so many difficulties to contend with. In holing to the run, in the engine-shaft, in the grass shaft, the water broke in, in such a flood, that it prevented our proceeding further in that direction. We are now driving from the engine-shaft, in the 18 fm. level, and expect to hole in a few days. In the grass shaft, we have cut a good tin branch; we have seen it in 12 fms. from the surface, producing good work; and when we hole and complete the run, I have every reason to believe we shall be in a position to mains tin, to good advantage, in the 18 and 12 fm. levels. I do assure you, we have been doing all that lay in our power to get en, and I have been frequently underground, working with the men. I know such delays are expensive and perplexing to you, but much more to myself—no one knows the trcuble I have had, but hope now we shall soon get over it. I have had to do with many dreadful runs in soft granite, and never, as yet, had to abandon them, until had succeeded in securing them, and hope I shall be able to do the same here. Many such runs have been met with in some of the best mines in the county, of which I am not a stranger. I will write you again as soon as possible.

CRAIG DHU SLATE QUARRY.—No. 3 bargain is now cleared, and slates are being made from three bargains. Considerable shipments are being made, while the accounts from the quarry continue favourable.—Feb. 9.

DEVON AND COURTENAY CONSOLS.—Ia continuing our cross-cut north, we have intersected the lode—it is split in two parts; the south part is about 18 in. wide, composed of pundic and peach; the north part is 1 ft. wide, composed of spar, mundle, and spots of ore—the two parts are 4 ft. asunder; but as we have cut the lode exactly where it is intersected by a slide, there c

favourable.—Feb. 8.

EAST CROWNDALE.—The ground in our engine-shaft is a close killas, with branches of spar and small branches of yellow copper ore, of a good quality; we have sunk in the past week 4 ft. The lode in the 47 fin. level, driven west on the north lode, does not look quite so good as when last reported on, there having bean a small horse of killas found m it, which has rather deranged is appearance; in every probability this will soon wear out—it is now worth about 61. per fan., and is 8 ft. wide, composed of spar, peach, mundic, copper ore, and killas. Since the rain has set in we have been obliged to suspend the engine-shaft at Rix Hill, there being such an influx of water as totally to prevent our sinking for the present; the men are now engaged in making whim round, and shall at once fix the whim, when suking will be again resumed. The tode in the shaft is 2\frac{1}{2} ft. wide, containing some saving work. We have commenced dressing the copper on surface.—Feb. 5.

GALLOWAY.—The lode continues with similar appearance in the shaft as last reported, except ground a little harder; under these circumstances we have considered it advisable to sink a second shaft on 4 he course of the first lode costeanced upon, where we have a strong gossan, and the lode at full width—about 7 ft.—Feb. 5.

considered it advisable to sink a second shaft on he course of the first lode costanaed upon, where we have a strong gossan, and the lode at full width—about 7 ft.—Feb. 5.

GREAT MICHELL CONSOLS.—The lode in the sump winze is without alteration, containing mundic, fluor, peach, spar, and ore, producing some good saving work, and is, in its general character, very promising. In the 36 fm. level, west of the sump winze, the lode, for the width of the end (4 ft.), is composed of mundic, peach, and spar, with ore intermixed throughout.—Feb. 9.

HOLMBUSH.—The 132 fm. level cross-cut, south of the diagonal shaft, is extended several fathoms beyond the perpendicular of the lode in the 120, and several branches have been intersected, but they are small and poor; in this level the lode appears to be split and disordered; we have suspended operations here for the present, and removed the men to drive the 120 fm. level south on the lead lode. The lead lode in the 120 fm. level has been cut through to the wastern wall, and is found to be 2 ft. wide, with a moderate underlay, on the casters side of it there is a branch of lead, and a little mundic mixed with it, 4 in. wide; the remaining part of the lode is quartz, white prian, and spots of lead—a very kindly lode indeed; and end at this time, north and south, is worth 101 per fm. The lode in the 110 fm. level, north and south, is 4 feet wide, composed of quartz and lead, worth 101, per fm.; there is still a large atream of water issuing from the lode, which, we think, is coming from the flap-iack lode; and in order to prove it, if possible, we have set the back of this level to atope by four men, and in rising, we hope to discover its source, as all the upper levels are quite dry; we have suspended the tribute pitches in the back of this level, on the western part on tutwork, which, for the time, we think advisable. The lode in the 100 fm. level south is 20 in. wide, composed of quartz and stones of rich silverlead; it has a more promising appearance for lead than for some

KIRKCUDBRIGHTSHIRE. - We have resumed driving the 50 fm. level end

more another points, 10 ms. further south than the last above-mentioned, to intersect the same part.—Feb. 8.

KIRKCUDBRIGHTSHIRE.—We have resumed driving the 50 fm. level end west, the lode is about 4 ft. wide, producing stones of lead and improving. The winze sinking under the 40 fm. level, is about 10 fms. before this end, where we have a course of lead producing full 1 ton per fm. The lode in the 40 fm. level end, is about 44 ft. wide, and producing stones of lead. The lode in the 30 fm. layel end, as contemplated, is being holed to Keith's shaft, perfectly correct; we shall continue driving west in this level on the lode, producing 14 ton of lead per fm.; and, in the meantime, fix the railroad in this shaft, to discharge stuff, with a view to resume sinking this shaft as soon as possible, as the lode is productive at this point—say upwards of 1 ton per fm.—Feb. 5.

LEWIS MINES.—The lode in the 70, west of engine-shaft, is 2 ft. wide, saving work for tin, but not rich. The lode in the 60 east is 3 ft. wide, worth 154, per fm.; the lode in the 60 east, on south branch, is 1 ft. wide, worth 154, per fm.; the lode in the 60 east, on south branch, is 1 ft. wide, worth 87, per fm.; the lode in the 50 east, on south branch, is 1 ft. wide, worth 88, per fm. The lode in the 50 east, on south branch, is 1 ft. wide, worth 88, per fm. The lode in the 50 east, on south branch, is 1 ft. wide, worth 88, per fm.; the lode in the 50 east, on south branch, is 2 ft. wide—set at 10a in 20s for saving the tim. Our last parcel of tin soid for 5671.

MENDIP HILLS.—I have just been underground, and find the lode, in the 35 fm. level, south of the shaft, is greatly increased in size—how large it is I cannot say, as we have not yet cut through it; from present appearances, I believe we have intersected another lode, being chiefly composed of flookan, iron, and spar, intermixed with a little lead near the footwall—fivourable for disring. In the slag department, I regret to inform you, we are not making that progress I could wish, in

solid mundic. At the bottom of the shaft the lode is not so large as it is further west; but, notwithstanding this, as the present level is not deeper than the valley, I would advise confining your operations to sinking the same shaft lo or 20 fms. deeper, and then drive east and west on the lode. The ground by the side of the lode, in the 26 fm. level, is a dark blue killas—I should say, favourable ground; and, being on the borders of the granite hills to the southeast, also having ample water-power to give the mine a fair trial, I would recommend your sinking the shaft immediately, as I consider the indications such as to warrant a further outlay.——Jan. 31.—Since the last general meeting there has been driven in the 26 fm. level west on the course of the lode about 7 fms.; the lode has been in a disordered state throughout this driving. We have driven on a south branch 1 fm. 4ft. 6im, but find it to be small, and at present poor; there has also been a rise put up from the back of the level 10 ft.; the lode here is of a most promising character, about 16 in. wide, containing abundance of mundic, with spar, prian, and a small portion of copper ore throughout; this rise is to the west of the cross-course, where, in driving the level a few fathems, the lode was very promising, and of a similar character to that in the rise; from the lode was very promising, and of a similar character to that in the rise; from the lode was very promising, and of a similar character to that in the rise; from the lode was very promising, and of a similar character to that in the rise; from the lode was very promising, and of a similar character to that in the last few fathoms driven west, as about the cross-course a few fms. to the east, as well, as before noticed, a few fms. weet of it, where it is probable the vent took place, producing the gossan that has been seen, I would now recommend your sinking the engine-shaft to a 45 fm. level, and then extend in hunder, and prove the lode, where looking so promising, and gone down in the olid mundic. At the bottom of the shaft the lode is not so large as it is fur-

SOUTH WHEAL TRELAWNEY.—Snell's engine-shaft is in course of inking with 9 men; ground a little harder than it has been; water just the ame as it has been for some time past.—Feb. 7.

sinking with 9 men; ground a little harder than it has been; water just the same as it has been for some time past.—Feb. 7.

TIN VALE.—As the air is getting rather had in Rose's (A) adit end, driving south, I have taken John Stocker and Co., to sink and rise on the middle lade, in this adit, in order to ventilate the mine, which, I think, will be completed in 10 days. In the said rise, I am happy to inform vou, we have good stones of tin ore. The adit level, driving west, in Rose's adit, on the middle lode, is composed of flookan, tin, and blue capel—a kindly lode; indeed, so good, that we are opening tribute ground fastly; the lode is 3 ft. 6 in. wide, having two regular and good walls. The lode in Floyd's (B) adit is 3 ft. wide, composed of red flookan, tin, quartz, and blue capel. We are also opening tribute ground sunartly in this adit. Our tributers are doing well, and working in good spirit. The grass work is getting on as fast as possible.—Feb. 9.

TRELEIGH CONSOLS.—In the 120 cross-cut, north of Christoe's, driving toward the lode west of the slide. In the 110, east of ditto, the lode is 3 ft. wide, with a more favourable appearance, and good stones of ore. In the 100, east of ditto, the lode is 3 ft. wide, with a more favourable appearance, and good stones of ore. In the 100, east of ditto, the lode is 3 ft. wide, with atones of ore and mundic, and appears to be leaving the elvans. In the 100, east of ditto, the lode is 3 ft. wide, with a little ore, but more promising than usual. In the 100, west of ditto, the lode is 2 ft. wide, worth 8 ft. per fm. In the 80, west of ditto, the lode is 1 ft. wide, worth 8 ft. per fm. In the 80, west of ditto, the lode is 1 ft. wide, worth 8 ft. per fm. In the winze, below the 90 west, the lode is 1 ft. wide, worth 8 ft. per fm. In the 80, west of ditto, the lode is 1 ft. wide, worth 8 ft. per fm. In the winze, below the 90 west, the lode is 1 ft. wide, worth 8 ft. per fm. In the 80, west of ditto, the lode is 1 ft. wide, worth 8 ft. per fm. In the 80, west of ditto,

WEST WHEAL MARIA.—We have suspended all our operations except inking of the western engine-shaft, which I have set at 142, per fim. The sone thing that I hope you will bear in mind—that is, driving the crout south, in the 54 fm. level, which I think we eught to drive with all spens there is a good lode discovered in Wheal Williams Mine, worth at least see fim, and which must come through the south part of our sett.—Feb. 1.

as there is a good lode discovered in Wheal Williams Mine, worth at least 30% per fin., and which must come through the south part of our sett.—Fieb. 1.

WHEAL ADAMS.—The rise in the 50 fm. level was holed to the winze, sunk from the 40, at the time mentioned in our last report; and the men are now engaged stoping the ground north, where the lode is 6 ft. wide, consisting of friable quartz and granular galena, worth 14% per fin.; this is the quartzose lode with which several of the small veins, seen in the upper levels, have united—on neither of which have the 50 fm. level been driven, at least, for a length of about 15 fms; the eastern lode is disordered, and probably destroyed by the flookan, as described in one of our former reports; it does not, therefore, reach the 50, as a cross drift, recently made, has proved. We propose making correct plans of the workings—each level to be drawn on a separate sheet of paper, as suggested by Mr. Hacket—without the assistance of which, I fear, reports will be but badly understood. The ground in the 18 fm. level cross-cut is in a compact blue slate, not congenial for lead; however, we hope soon to meet with the light blue rock, in which the western silver-lead lode has been invariably found productive. We hope to be enabled to ship the 30 tons of lead, purchased by Messra. R. Michell and Son on the 31st ult., at 10%. 14s. 6d. per ton, in course of a few days. We are preparing another parcel for market; but the dressing has been much retarded during the last fortnight through intense frost and heavy falls of anow.—Feb. 9.

WHEAL TRELAWNEY.—We have commenced driving the crosscut in the 62 fm. level (Phillip's shaft), and set to cut the lode at 72 per fm., with a premium of 22, if the work is accomplished in six weeks. The lode in the 52 north, is 2 ft. wide, chiefly composed of can, with mundic and lead, worth 100, per fm.; in this level south the lode is 4 ft. wide, composed of can, hornstone, hard and friable quartz, mundic, and lead, worth 14. per fm.; the stopes, in the

the lode.—Feb. 8:

W. HEAL ANDERTON.—A great improvement has taken place in the 70 fm. level, west of shaft, and also the south wall of the lode, cut to the east of the slide in the 70 fm. level, as referred to in my last report. The lode in the 60 fm. level, both east and west, is looking very promising to be productive—various tutwork bargains and tribute pitches were set on Saturday, ranging from 4s. to 8s. in 1/. The engine-shaft is also set to sink under the 70 fm. level, at 8/. per fm. The new 12-head stamps are put to work, and are going on satisfactorily. We have resumed the dressing of tin, as the frost has entirely gone in this neighbourhood.—Heb 7.

FOREIGN MINES.

Williams's Shaft is about 100 fms. cast, further east than the last named lode, and is such as an underlayer 12½ fms.; at the bottom we have driven a cross-cut week; and have cut two branches: the orea are principally red oxide and grey, worth 46 per cent.; In my last, I referred to this lode, as connected with sidies, and having in it the blue carbonate; we now find it slidy, and I like the appearance much, although it may be rather falling; we can open ground here for about 50s, per fathom, which will do on fribute.

**Rogal's Shaft is staking to cut a lode, a fine goesan, about 5 ft. wide, with stones of ore; this lode is further cast than the last named, and when the shaft is down 14 fms., I intend driving to cut the lode, and the down and when the shaft is down 14 fms., I intend driving to cut the lode, and the 400 fms. driving, will be 90 fms. deep; we are in from point of lobby 50 fms.; hitherto it has been washed ground, costing at present 23s, per fms.; the point of this lobby begins on a plain, which will make a fine dressing-fiour, in case we cut water now, except in the winter, in our valley or gally. We have elight houses built of wood, mud, and covered with reed; they are built cheap, as the men have done most out of core, in order to save rent; we are now building four more of stone, but have great difficulty in getting masons here, and have suffered much from want of proper houses to live in, as the weather is either hot, wet, or windy. The late directors laid a young man, called Ponethiome, from 91. Just, Cornwall, as capitaln on the mine; they asked if we would enaploy him for a few monits, until they could get another place for him; but, poor fellow, no caught cold, and died in about two months after we began; I shall now turn his little property into money, and send it on to Cornwall as ceptain on the mine; they alsoed from the mine that in which we have hithere found copper has been primitive limestone, mixed with a delicate white mise, and a selfstone; it will be an inviting mise for more

crucibles are subject to decease of the best correspondence of the control of the

them know not where to wander for work.

Sept. 9.—Since I wrote you on the 9th ult., the heavy rains have ceased; and, in order to prove the lode under the 20 fm. level. I put great force to sink the winze we were obliged to abandon. We are now down 11 fms. under the 20 fm. level, and for the last 5 fms., have had fine stones of yellow copper ores, worth 30 per cent. The lode is from 3 to 6 feet wide, but not quite regular in its underlay, holding rich spots of ores, 10 to 15 lbs. weight. At the point where the water is stationary (or under which it never sinks), the yellow ore is found; and the ground, as well as the character of the lode, is changed, and looks very promising. Instead of the carbonate and oxides, we have now regular yellow copper ores, as rich and as premising as I ever easy in Cornwall; but we have not enough of it yet. The winze alluded to above, in which we have the copper, is 11 fms. north of Lewis's shaft, and is now down to the same level, and intend driving north to hole to winze, which will be more convenient for air, and drawing the staff.—

MERCHARD RODDA.

IMPERIAL BRAZILIAN MINES .- Gongo Soco, Dec. 3 .- At Ba as far up as Walker's (new) wheel pit, and in all the other parts it is proceeding rapidly through favourable ground. In squaring down the bottom of Thomas's shaft, we have found the "shoot" of gold to be longer than we had seen it above; and, in following to round the "shoot" of gold to be longer than we had seen it above; and, in following it, we have taken out two boxes of work for the washing-house, which will give about \$\psi\$ be our lift, so as to sink a few feet further on the productive voin. We have commenced extending both towards Walker's shaft, and also in an opposite direction, from near the bottom of Thomas's shaft, and we hope to intersect veins worthy of notice during our progress. In the former of these new levels we have cut a considerable stream of water. The saw-mill, and all our other surface works, are going on well, although the rains impede us a little. I have pressed the agents on the subject of forwarding the new pumps as quickly as possible, after their arrival in Rio.*

* These pumps were shipped from Liverpool the end of November last.

NATIONAL BRAZILIAN MINES.—Cocaes, Nov. 23.—The people are employed at pre. ent on the highest part of the backs, and are still rising, in order to ascertain if the vei

Cocaes, Dec. 2.—The most promising place we have now in progress is at the south side of the sink; the lode at this place appears to open as we advance southerly; and the samples taken from there being good, is a favourable indication. Should the vein on which the large working was made, west of the Cavaco shaft, continue downwards in the direction mentioned in last report, we have yet 9 more feet to drive to reach that line—if so, it is a most favourable thing for us; and, judging from present circumstances, it is not at all unilkely to be the case.

this, I know from Capt. Troloar, is not the fact—there was quite as much; if not more, in the preceding month (October).

Regussition for Machanica.—I have to request the board will send out, as soon as possible, two carpenters and three smiths—they should be first-class workmen—in a perfect state of health—of good moral character—and if married men, who will take their wives state of health—of good moral character—and if married men, who will take their wives out with them, so much the better. On the other hand, I regret to say, that we are on the point of losing one of our best smiths, Joseph Knight, who will go home invalided by the next gold troop; and Mr. Bir fears that a smilar step must very soon be adopted with S. Paul, a carpenter, whose health has been for some time in a declining state. I have long hesistated to call on the board for this increase to our mechanical force—noping that the new pump and new pitwork being once completed, we might have sufficient hands to get through our other new works, together with the immense weight of repairs and running work, which, in this great and increasing concern, we must constantly lock for; but one new work complets us to undertake another—the erection of new stamps or the state of the state of the state of delay first additional work preparing for it. The old, and nearly worn out, 14-feet wheel, now in mas there, must be replaced by a now 30-feet wheel. The four amalgament of the state of the stat

Died,—At Redruth, Mr. Thomas Carkeet, aged 50 years. He was one of the miners, who in 1825 distinguished themselves in saving upwards of 650 souls from perishingon board the Kenf, East Indiaman.

ti file to the control of the contro

of the co-Unforted to the de-tempt the view of the by some airable to tention to date the complete amount to sufficient sufficient.

sufficient two distraction of circums drawing frights of the plan question, likely to a lines.

X CHIANTLA MINING COMPANY.

A special meeting of shareholders in this undertaking was held at the offices, Duke-street, Adelphi, on Thursday last, the 10th inst.

John Taylor, Esq., in the chair.

Mr. Phillips (the secretary) having read the notice convening the meeting, The Chairman said, the directors had prepared an abstract of Mr. Floresis very long and elaborate report, which had been sent to each shareholder, previous to the meeting. He said, the persons who were first sent out for the exploration of the districts under notice (the best they could get at the time), had not turned out so competent as could have been wished; and an opportunity having occurred of obtaining the services of Mr. Floresi, they had done so, and the report was now before them. The following is the—

Directors' arrors.

and, and the report was now before them. The following is the—
"The prompted issued in the passacronal association is the company to be that of exploring the unitered ground ware the town Chianth, in Contral America; and it also explained the course of greeneeding intended to he adopted, before consing to any the training town alletted, the directors, he puressees of the plane which they had determined appon, engaged his services of its emissageants, and an assayer, and eleved also an availation, and the services of the uniterating them alletted, the directors, he puressees of the plan which they had determined appon, engaged his excitose in two and an acceptant themselves fairning them canadider of the contract of the directors. The directors have be informed the season of the contract of the directors. The directors have be informed the shareholders, that the effects of the directors. The directors have be informed the shareholders that the effects of the directors. The directors have be informed to suppose to be anything audited over our advanced and acceptant themselves and the same of the shareholders and the same of the sa

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up, clearly shows that the investigation has been conducted by one thoroughly conversant with the subject; and a favourable impression is produced as to the value of the mines, by the very circumstance of Mr. Floresi having taken the trouble to report upon them with such minuteness of detail, which he would hardly have done if the prospects of the concern had not been very encouraging.

Unfortunately, however, Mr. Floresi's report reached England at the time when, owing to the depressed state of the money market, it would have been utterly useless to attempt the raising of capital for the objects contemplated by the company. Upon this view of the case, and finding also that the calls already made had not been responded to by some of the shareholders, the directors came to the conclusion, that it would be desirable to wind up the affairs of the company, and accordingly gave notice of their intention to do so. Previously, however, to a dissolution, they considered it right to liquidate the outstanding liabilities, for which purpose a further call of 4s. per share was made. They regret to any that of this, as well as of the previous call, a considerable sum remains still unpaid; and that, consequently, the dissolution of the company cannot be completed until the directors are enabled to satisfy the demands upon them, which sament to about 550l. The amount of expenditive has exceeded that contemplated as sufficient for the Inspection, but the excess has been occardoned by the examination of two districts instead of one; and in this there is every reason to believe that every economy has been excreted. The object of the company, so fair as the acquisition of of circumstances in this country, there would have been no sufficient ground for withdrawing from the undertaking, and even now it is open to the company for witherights of the mines acquired, until the arrival of a more characteristic from the made and the contract of a more characteristic fluster all mentles, at a few contracts of the form of the observation o

From the statement of accounts, it appeared that the total amount of calls received had been 5674, and the expanditure as follows—viz.: Salaries for services during the exploration, 5th. Anderson, 5684. 16s. 3d.; Capt. Hooks, 2004.; and Capt. Matthews, 1604.; passages and traveling surpasses, 2064. 19s. 404.; andry goods and materials, 2274. 18s. 2d.; home management, 1374. 2s. 10d.; Mr. D. Fieresi, on account of inspecting mines, 2004.; expenses in Guntemala (tess 1724. 5s. ch. charged in salaries), 47464. 2s. 6d.—togother, 57564. 19s. 6d.; leaving a balance against the company of 1824. 2s. The liabilities are the above balance; due to solicitors, 2004.; D. Fieresi, 1004.; sundries, 774. 15s. 6d.—total, 5494. 17s. 6d.; to most which, there are arrears of calls smoonthing to 3633. 2s. 6d.

The Charman then observed, that nething had been paid either to directors or manager. The expenses in Gustemala, he believed, had been kept us low as possible; and the London charges were only what could not be avoided—such as rent, postages, &c.

A resolution was then passed, adopting the report, the accounts to be audited, and presented at the next meeting.

Mr. J. TAYLOR, Inn., the manager, then read a short statument of the aphrions and recommendations of himself and the directors: they considered the Chiantia Mines badly situated, being so far from the coast, without reads or water-power; that, whatever might be the riches there, it was advisable to give up all idea of prosecuting them. With respect to Alotepeque, the same objections due to aphrical promising; and only 40 leagues, by good roads, to two harbours of shipment. It was, therefore, recommended to dissolve the old company, form a new one, consisting of \$500 shares, the old shareholders to have precedence, and make a call of 2s. 6d. per share; that Mr. Anderson be empowered to proceed to Mexico, on the terms mentioned in the last clause of the company be decided on.—A very long conversation then ensued, as to the best and most legal mode of dissolving the old co

BURRA BURRA MINES-SOUT USTRALIAN MINING COMPANY. We have received the following report presented at the last (second) annual acting of this company, held at the Auction Mart Tavern, Adelaide.

CHARLES BECK, Esq., in the chair. This company owns the celebrated Burra Burra Mines, the richest and most productive of any of the South Australian Mines yet worked.

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Saroar.

The prospects of the mine continue favourable, and discoveries are frequently being made tending to increase its value. At Burce's shaft, a considerable distance from the principal workings, 80 tons of the blue and green carbonate of copper was raised last month, and there is every prospect of exceeding that quantity this month. An important discovery has been made within the last few days of a lode of excellent ore in new ground, extending throughout the mines at a depth of 21 fms. The pitches generally are producing good ore in large quantities, and the men, aumbering more than 200, are working with spirit. The quantity of ore ruised in March last was 1192 tons, and it is expected that a like quantity will be produced this month. The quantity raised during the last six months was 3481 tons, which is less by 273 tons than the preceding half-year; but this decrease arises from the mine being closed nearly two months of the last half-year, for the purpose of dressing up the ore raised from the old pitches, and, when compared with the actual working time of each six months, will be found to be a large, increase. The directors have only received the complete account sales of about 360 trans of ore, the highest price realised being 316.9s, per ton, the lowest 104. (6s, per ton, and 4ffe average about 16f. per ton gross, leaving a clear profit to the association of about 346M. In addition to this, the directors have received the Swanson sale lists, and samplings of 944 tons of ore, being the cargo of the Malecoin, and, when added to the first-mentioned quantity, the average of the entire (1757 tons) will be about 17f. 14s, per ton.

The directors have, however, to remark, that the over sisted last year, being principally surface, were much inferior to those slipped this; and that better results may be considently expected front their improved quality—in ordiners of which

artectors, in the place of Messrs. Stocks, Jun., raxion, retilierscone, Bunce, and Allen, and two auditors, in the place of Messrs. Brown and Wicksteed.

We have also the accounts, which show the total quantity of ore shipped and raised since the opening of the mine on the 29th September, 1845, up to the 31st of March, 1847, is stated to be 9841 tons. Of this 318 tons were sold in the colony, 5220 tons exported to Swansen; at Port Adelaide ready for shipment, 1648 tons; on the road to the port, 308 tons; on hand at the mines, 1850 tons. The ore of which accounts of sales had reached the company, which had been sold at Swansen, averaged 171. 14s. per ton. This was all surface ore; and the remaining shipments, amounting to 4800 tons, were all of a superior average quality to that first sent to England. Thus, the whole of the ore actually sold, or on the way to market, amounts at present to about 8590 tons, which, at the price of about 171. 14s., would give in round numbers something over 150,0007. The whole expenses of the mine, including original purchase, machinery, wange, &c., are stated at 75,2282; after which, adding 42,5001, the amount of freight and charges at 51 per ton, would leave the company a profit on the undertaking of 32,2721. In other words, the Burra Burra Mines have, in 18 months' time, repaid to them a profit of 32,2721. We doubt if the history of mining transactions can farnish a parallel to this.

As soon as the ore at the port was shipped, it was the intention of the directors.

As soon as the ore at the port was shipped, it was the intention of the directors, as stated in the report, to declare a dividend of 50 per cent. on the capita stock of the company, which they would be enabled to do from the profits of the sale of the 1757 tons already actually sold.

TAVY CONSOLS MINING COMPANY.

TAVY CONSOLS MINING COMPANY.

At the two-monthly meeting, held at the Central Hall, Plymouth, on the 29th January, the accounts were examined and passed—showing labour cost for Nov. and Dec. last, 862, 19s. 1d.; merchants' bills, 294. 13s. 10d.—657. 12s. 11d.—By balance at last account, 72l. 16s. 8d.; November ore, 192l. 14s. 8d.; December ore, 299l. 6s. 10d.—beaving balance against the company of 92l. 14s. 9d.; to cover which, there is a return of January ores, not received (102 tone), estimated at 400l.—It was then resolved, that the reports of the committee and captain be received, adopted, and circulated, among the shareholders—that the recommendation of the committee to continue the sale of ores by private contract be adopted—that Capt. Martyn, who broke his leg, be allowed three guineas per month for three months—and that Capt. Goss's appointment as head captain be confirmed—that the thanks of the meeting be given to the committee for their services—that holders of 10 shares be eligible for committeemen, instead of 20, as before—that Admiral Tremlett, Messrs. Rendle, Foy, Fisher, Arscott, Pethick, and White, be the committee for the next two months (threeto form a quorum)—that the draft set from the Duke of Bedford be submitted to the committee for approval, and that they be authorised to call in any assistance—and that the thanks of the meeting be given to G. Strode, Esq., for his kind presentation of a bell to the mine.

The following reports of the committee and Capt. Goss were read:—

The following reports of the committee and Capt. Goes were read:-

The following reports of the committee and Capt. Goss were read:

Your committee have much pleasure in informing you, that since the last general meeting, their arrangements have been completed with his Grace the Duke of Bedford, for that extensive and valuable piece of mining ground, called "Blackmorvelham Wood, for the extensive and north-east by the River Tavy, and on all other sides surrounded by Tavy Consols sett, and into which our present workings are kemediately running. The boundary was marked off on Saturday last, by the agents of the lords; and as soon as the draft of sett is submitted, workings east on the course of our copper lode will be immediately commenced in the duke's land. We suggest that the feaces of the saturday last. To recommittee having also taken into expanderation the sales of ores, strongly recommend that the sales should, for the present, be continued by private contract, as heretofore. We beg to congratulate the shareholders on the propects of the concern, which are most flattering, and promise, at a very early date, to repay them for their outlay and preseverance.

them for their outlay and perseverance.

Tary Consols Mine, Pab. 8.—I beg to say, since our last general meeting, the engineshaft has been sunk about 2 fms., producing about 16 tons per fm.; the shaft is now 13 fms.
below the 24 fm. level—worth at present about 70, per fm.; we have suspended sinking
for the present, sollared over the bottom of the shaft, leaving 9ft. forfs, and commenced
driving east and west in the 36 fm. level—we have driven east about 2 fms. and west
about 1 fms. 2ft., producing about 14 tons per fm., as we carry the pist 10 ft. high, and

THE LADY ELIZABETH MINING COMPANY.

A special general meeting of shareholders was held at the offices of the company, Lombard-street, on Tuesday-last, the 8th inst.

Thomas Bartesty, Esq, in the chair.

After the usual preliminary proceedings, the Chairman submitted the reports of Messra. Pritey and Williams, and congratulated the shareholders upon the prospects in view, and more especially upon the discovery of the plumbago lode—an article which would at once fused with a ready sale, not only in London, but elsewhere, and there was no question but what it would shortly be enhanced greatly in value, in consequence of the great decrease of the mineral in Cumberland, which at present supplies the chief part, I not the whole, of the London market. Any quantity of this article may be obtained upon the mine, and the transport to London and elsewhere is easy, the mine being distant from the shipping port only two shills. The shareholders upon this article done may expect large and permanent divides and the same files, they would recollect that there were two other articles, both of superior quality—viz.: unber and selve—the former, as far as yet discovered by boring, sinking shafts, and driving add in different parts of the soft, amounted to about 11,500 toau upon the most moderate calculation; and this would leave a profit to the shareholders, after the payment of all expenses, of washing, eleansing, freight, &c., &c. London, at 30s. per ton, and the expenses of washing, eleansing, freight, &c., &c. London, at 30s. per ton. The oebre can-bo raised the any quantity, and of a superior quality the folse were two in number, and the quantity unlimited; the whole of the above uninevals had been easefully examined by Dr. Ryan, of the Polytechnic Institution, and other able chemists, who promounced them of a superior quality—indeed, the Plymouth umber has been always celebrated for its high quality, and free from Sapurities; it fetched a inginer price in the market than any other umber. He (the chairman) heed searcely add,

few hours, and easily accomplished, as the south arrow assuray, on some would be only three miles distant from the mine.

REFORT OF CAST. B. B. PASTEY.

This mine is situated in the parish of Ermington, 9 miles from Plymonth, and 9 miles from Mothecombe Harbour, where the produce can be conveyed, for shipment, at a small expense. On the sett is a large lode of umber, running cost and west, which has been opened, and many tons sold, averaging from 31, to 34, per ton. The open cutting has been made, 40 ft. long, 30 ft. wide, and 20 ft. deep, from which the owner cas resis and weak from 16 to 20 come per month. It have opened the lode, at different places, nearly 100 ma. About 13 fathoms from the umber there is a good celure lode, about 13 feet wide, of a very good colour; and another lode of occlure (ft for paper-makers), of which the proprietor has sold many tons. An add it level has been driven 16 fathoms, and a shaft sunk fans,—three sets of boodles, or washing-boxes, complete, with flores, and 20 tons of umber washed. It will be requisite to have a crushing-mill (we have a good stream of water running through the sett), with drying sheds, &c.; about 130, would put the time firm full work, and, I believe, no further calls would be required—except the works should be worked on a large scale. The lease is for 31 years, from Sept., 1847, at dues, or a royaity, of 1s, per ton for iron; &s. per ton for umber and ochre; and 1-15th for all other meritals and minerais. This, I consider, is no speculation, as we shall have ready for market, in six weeks, 30 tons of umber, and as many of ochre. The raising, washing, packing, cask, and freight to London, will not exceed 30s, per ton.

market, in six weeks, 50 tons of umber, and as many of ochre. The raising, washian, packing, cask, and freight to London, will not exceed 30s, per ton.

REPORT OF MR. C. WILLIAMS, MINING ENGINERS.

According to your request, I visited this mine on Thursday last; It is situate in the parish of Ermington, in the county of Devon (held on lease for 21 years), on a gently rising hill, on an inclination of about 2°; so that a level, or adit, rany be driven under at a small distance, to sake off the water from the mine, which appears to be no smore than what is called top-water. The mine appears open: the adit, or level, in my opinion, should be sufficiently while to admit of a trammond being laid down, for the purpose of taking out the umber—where ought to be fixed a water-wheel (there being a good stream of water), to crush the ore, prior to its being washed and made marketable; there should also be a shed creeted to dry the ore, after being washed, the cost of this, together with a 12-fact wheel, would be about 30d. Several tons have been returned, and realised from 31. to 81, per ton. The lode is running east and west, and has been traved 1906.4; It is 40 feet wide, and 18 feet deep; so that, if it would weigh 30 lbs. to the square food, which I comsider may fairly be calculated upon, it would produce 11,500 tons: this, at 5d. per ton, would be 57,855s.; then, deduct for dues, 8s. per ton—resising, washing, and setting it to market, altogether, 30s. per ten; this would be 17,857s. the,—leaving a bance of 40,497s. 10s. upon the whole, so far as has been discovered. The surraine, or overburbies, upon this lode is only from 3 to 4 feet deep, which is quite solid, and whitever waste. Any quantity of other, and of excellent quality, my be obtained on this sett, and within 10 or 12 fathoms of the uniber lode. Any further remark I could possibly make upon this unine would be anyerfluous, after making the most sinute calculations, as above.—St. Teeth, Cornwall, Jan. 22.

SMELTERS VERSUS MINERS.

SMELTERS VERSUS MINERS.

SIR,—I have, for the last few years, read so much upon the iniquities of the smelters and the oppression of the miners, that I am almost sick of the subject. Every one seems to talk and to write, but no one either acts, or proposes a feasible mode of action. Your very flowery and poetical correspondent, in last week's City article, mourns in pathetic strains, over the unfortunate mineral much of puppy dogs "—and, satisfied with his flourishes, leaves the remedy for others to apply. As Ovid says, however, "Nulla venerate littera mineral joc est." Between you, and me, and the post, Mr. Editor, though the smelters, doubtless, are ——, the greatest blame attaches to the supineness of the companion, the smelters of the supineness of the companion of the same of the supineness of the companion of the same of the same property with the tact and eleverness of business the mode of (what has been beautifully termed) "working the oracle," have raised to them selves colossal fortunes, and are, in consequence, masters not only of the metal markets, but of the miners. Many members of these firms were formerly "miners"—they have, as it were, risen from the ranks, and find their present business more lucrative than underground operations; and, if such men as these see gentlemen of high station, and others of high standing in the commercial world, (who are, in a general way, scrupulously exact in all their dealings, and view, with the greatest jealousy, any attempt to impose upon them in transactions connected with their own business), allowing them to continue a shameful, but, to them, an enriching, monopoly—are they (that is, the smelters) to blame? Of course not—their sole business is to make money, and these sind they are to bid for the ores at the ticketings. This is regulated so as to give them a clear profit or about 30 per cent. The smelter is not content with the tradesman-like returns, of buying an article in the rough, and manufacturing it, so as to get a fair profit upon the transaction: he a 50. 5a. per loss for your ove, and if you do not like the price, take it home again. And, by the way, Mr. Miner, in carting and shipping the over, there may be a waste, and I must have 21 cwts. to the ton—so that, in 100 tens, it shall get 5 ton sinto the bargain; and so good morning. Mr. Miner." The miner, poor devil, what can he do? He knows the expense of smelting is not half the amount per ton charged him, and he also knows the waste per ton is not, perhaps, if way whilst, according to the custom of Cornwall, he has to allow these comorants I cwt., or 5 per cent. In every way the smeller takes an advantage, until the miner can acarcely get a remunerative price for his produce, nor the workman for his labour. The injurious effects of this are already showing themselves in the deep mines; and where it will end, unless something be done, I can only conjecture.

Looking at this, what, I would ask you, Siz, is to prevent the formation of a public smelting company? To make a railway of questionsible importance—to get up a company for providing means for a visit to the moon—a million is soon raised. Here is a tangible thing that would pay 30 per cent, and millions of capital ninemployed! I believe there are now serval gentlumen of high standing ready to subscribe their thousands canh to forward the object, but it wants a secon—in fact, it wants a head. The profits of smelling are known to be anormous. I have heard, but carmot wouch for its truth, that the profits of a single year have been considered in sufficion, and this does not appear as incredible, when we look at the enormous fortunes—conclude in a few years by the monapolists of the trade; I would, therefore, suggest that a public amelting company be formed, with a capital of one or two millions, to be reseated by shares, and that every mine in Cornwall, Devon, and in other parts dis-

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terested in the question, shruld subscribe for a certain number of shares, according to the extent of its returns; the other shares would soon be taken up by the mine adventurers and the public. Upon these shares large interest would be paid, and the mine-owner would be doubly advantaged, by getting a fair price for his produce, and good interest for the money advanced to bring it about. The directors of Devon Great Consols, indignant at the low price of fered for their ores, and the sacrifice of hundreds of pounds they have to bear monthly upon their sales, complained last week to the smelters; the latter met them, but, as I am told, offered no redress. These directors and shareholders are men to whom 10,000L, or even 20,000L, would be no object. If they are not also of the complaining and non-acting sort, let them show the spirit to come forward, and head the movement, and we shall soon have the company established. A way of punishing the monopolists would be, by every mining company coming to a resolution, to return just sufficient ore (and no more) to pay working cost. The furnaces of these gentlemen would then be rather bare, and better prices might ensue.—ARGUS: Feb. 9.

TO THE SHAREHOLDERS IN THE LATE CARADON CONSOLS.

FELLOW SUFFERERS,—Can any of you inform me, when we are to receive a dividend of the assets of this unfortunate adventure? A long time has now elapsed since the materials were sold, and we were led to expect that the proceeds would yield us nearly 5l. per share, but I much fear we shall realise considerably less. It appears as if the originators of this splendid speculation were not satisfied with having induced us to fork out enormous premiums for the shares, but it seems as if they were inclined to increase the loss we have sustained, by delaying the payment of the dividend. Should they continue to withhold it much longer, I desire to know, whether we cannot by law compoint the purser to make a speedy settlement?—and whether you would unite, for that purpose, with—Sextus.

MINING NOTABILIA.

[RETRACTS FROM CUE CORRESPONDENCE.]

CARADON UNITED.—In sinking a small shaft, to hole to the top of the run, we have cut a tin lode. Little has been seen of it, on account of the water, though large stones have been taken from it, and it is supposed to be a large lode.

DEVOR GREAT CONSOLS.—At Hitchin's shaft, in Wheal Josiah, the lode has improved considerably during the past few days, and is now worth 30L per fm. At Termentor, they have a fine promising lode, on which they are driving both east and west At Anna Maria, the shaft is down to the 50 fm. level, where something good is fully expected.

XMOOR WHEAL ELIZA.—A discovery has been made here in the end driv. west. Ore is now seen at both the east and west ends, and, from appear-es, a regular course of ore is daily expected.

HERODSFOOT is represented as having much improved—having a splendic curse of ore in the 62 fm. level north, where they have also backs of 24 fms. MARKE VALLEY continues to improve—the discovery was first made about ix months since in the 65 fm. level. The ore is low price, but they have pened several fathoms in length on a lode that will yield 20 tons of copper

PHENIX.—The lode continues very good, producing some rich copper ore. SOUTH WHEAL BETSY (near Tavistock).—This mine is looking admirably and, I have no doubt, that they will have a splendid lode there shortly. The lode is now producing some excellent stones of lead, from 15 to 20 lbs. solid. They have settwo pitches, and as soon as they can clear the levels will set others.

SOUTH WHEAL BASSET is reported to have improved considerably during

WEST WHEAL JEWEL.—We have received the usual weekly report, which is, however, incomplete—the number of fathoms stoped in each level being left blank, which renders that part of the information (if such it can be called) nugatory. It shall appear in our next Number.

WHEAL WILLIAMS is looking remarkably well; the shallow shaft is 8 fms deep, and the lode produces three tons of very good copper ore to the fathom Preparations are making for the first sampling, and a fair pile of ore is collecting.

Preparations are making for the first sampling, and a fair pile of ore is collecting.

WHEAL FRANCO.—A general meeting was held on Wednesday last in Plymouth, at which W. BURNELL, Esq., presided. The accounts of the mine were brought forward, by which it appeared that, after the payment of all debts and liabilities, there remains in the hands of the company upwards of 400L. The report of Capts. Edwards and Lean was read, by which it appeared there was a general improvement in the mine, and that the lode in the 47 fm. level had just been cut—that it produced good stones of ore, and was, on the whole, most promising, the 32 fathom level above this point having been rather poor. The meeting was adjourned until the 8th of March, in consequence of the present interesting state of the mine, and with a view of publishing a full financial statement, together with detailed accounts of the state and prospects of the undertaking.

statement, together with detailed accounts of the state and prospects of the undertaking.

PLYMOUTH WHEAL YEOLAND.—A large party of the adventurers in this mine went out to the works, on Thursday last, to see the new engine set to work. About four o'clock, the engine was set in motion, and the adventurers had the pleasure of seeing it at work for the first time. Out of esteem for Capt. Edwards, the engine was christened "The Jane"—that being the name of Capt. Edwards wife. The party, in performing this ceremony, drank success to the adventure. Although the engine was got to work by dint of great exertion, both night and day, she will not be fit for regular duty for a short time to come. After the adventurers had seen the works on the mine, they returned to the Lopes 'Arms, at Jump, and there, with a number of the neighbouring mine agents, sat down to an excellent dinner, which the keen air of Roborough Down made them heartily enjoy. About 50 sat down under the presidency of Mr. Codd, of Plymouth—Capt. Carpenter, of Wheal Anderton, acting as vice-president. After the usual loyal and mining toasts had been drunk, the company, who spent a pleasant day, returned home.—A later report states that "the engine is working well, and that 12 heads of stamps will be in full operaon Monday next." The lode in the levels east and west of the engine-shaft are rich, as is also the new south lode upon which the shaft is sinking.

PLYMOUTH WHEAL YEOLAND EAST.—We hear that it is intended to com-

PLYMOUTH WHEAL YEOLAND EAST.—We hear that it is intended to commence operations vigorously in the course of a short time.—Plymouth Journa

BUDNICK CONSOLS.—At a meeting of adventurers, held—the meeting of model and the mine, on Monday last, the accounts for Nov. and Dec., as follows, were presented and allowed, and the balance ordered to be divided, and forthwith collected:—To balance at last account, 424. 12s. 10d.; costs, &c., for November and December, 1316d. 1s. 8d.—1740l. 14s. 6d.—By ores sold (less dues), 1078l. 14s. 7d.; carriage of tin, 16l. 1s. 3d.—1094l. 15s. 10d.; balance due from adventurers, 645l. 18s. 8d.

Grambler and Sr. Audyn.—A meeting of adventurers took place at the account-house, on Tuesday last, at which the accounts for four months, ending 31st Dec. last, were passed, and the balance against the mine of 83st. 1s. 7d., ordered to be divided and collected forthwith:—To balance from last account, 557f. 6a. 7d.; costs and merchants' bills, 1855f. 16a. 6d. —2413f. 3s. 1d.—By ores sold (less dues), 1547f. 11s.; sale of materials, 31f. 10s. 6d. — 1579f. 1s. 6d.: balance, 834f. 1s. 7d.

balance, 8341. 1s. 7d.

Whear Baser.—To labour cost for Nov. and Dec., 10831. 10s. 7d.; merchants' bills sear.—To labour cost for Nov. and Dec., 10831. 10s. 7d.; merchants' bills for ditto, 5441. 19s. 3d.—16281. 9s. 10d.—By copper and tin ores, sold Nov. and Dec., 18591. 2s. 7d.; deduct 1-20th for lord's dues, 921. 19s. 1d.

17661. 3s. 6d.—leaving profit of 1371. 13s. 3d. Balance in favour of purser at last account, 6491. 1s. 8d.—leaving balance against the mine, 5111. 8s.

Whear Seron.—The usual two-monthly meeting of adventurers took place at the mine on Tuesday last, when the following accounts for November and December were allowed, and a dividend of 201. per share declared:—By balance at last account, 24001. 4s. 9d.; short credited on ores sold, 11. 12s. 5d.; ores sold (less dues), 41661.8s. 10d.—86582. 6s.—To costs and merchants' bills, 29971. 13s. 4d.; dividend of 201. per share, 19801.—49771. 13s. 4d.: leaving balance in favour of the mine of 15901. 12s. 8d.

Delance in favour of the mine of 1590/. 12s. 8d.

OLD TREWETHER ANTIMONY MINE, AND WHEAL THOMAS COPPER AND LEAD MINES.—These mines are situated at Port Isaac, Endillion, four miles from Padatow, in Cornwall, and extend about 700 fathoms from north to south and 340 fathoms from east to west, the great autimony lode running through out the length. The Wheal Thomas copper lode runs cast and west, and caumter lead lode intersects all the others—four of which have already been worked upon, and two others partially opened. The principal of these is the antimony lode, which, it is stated, has yielded 72,000, worth of autimony one running through want of efficient machinery, and disputes with the owners of adjoining lands, who required an exorbitant price to pass through their land, it was eventually abandanced. A lease has now been obtained from Earl Fortescue and Viscount Elemanton, for 21 years, from 1845, at 1-12th and 1-14th dues, and of the adjoining and through which the lodes pass, at 1-14th and 1-16th dues. The deep salit is now extended to 145 flux; the deep shafts have been secured, and preparations made for fating the pumps, to be worked by a water-wheel, 16th diameter, and 4th breast, which is a stream of water-wheel, 16th diameter, and 4th breast, which the lodes pass, at 1-14th and 1-16th dues. The lodes in Wheal Thomass are of a promising character, and all the orea raised can be abilipped either at the continuous and through which the lodes pass, at 1-14th and 1-16th dues. The lodes in Wheal Thomass are of a promising character, and all the orea raised can be abilipped either at the continuous and through which the lodes pass, at 1-12th and 1-14th dues, and 1-14th dues

The Mexican Miner.—By the New York line of packet ship, arrived at Liverpool, we have intelligence from the United States up to the 17th ult., and the orders published by Gen. Scott, at the head quarters of the army, dated Mexico, December 15th, relative to the taxes and import and export duties, among which is the following. —"The import and export duties at the ports of the republic, will remain as fixed by the Government of the United States, except that the exportation of gold and silver in bars, or ingots (plata yoro en pasta), is prohibited, until the further instructions of the Government on the subject are received. The direct taxes, or dues, on the production of gold and silver, and the melting and assaying dues, will remain the same as heretofore for the present." How far the above order may effect the English mining companies in Mexico, is yet to be seen. One thing certain is, that the occupation of that country by the troops of the United States, will be a great impediment to the development of British enterprise, as the grand object of the Americans is evidently to obtain a large revenue from the extensive mines in the different districts themselves; to facilitate which, which a project is to be submitted to Congress for the immediate laying down of a railway from the city of Mexico to Vera Crux, and cutting good roads into the mineral districts of the republic, and to give every encouragement to mining adventurers from the United States, with large concessions, which will be made point, to be raiffed by the Mexican authorities, in the event of a peace being concluded between the two republics.

Sr. John del Ray.—A correspondent mentions, that from parties lately arrived from the Brazils, he learns that the principal water-courses, or leats, which work the stamps belonging to this company, are likely to be cut off, as they belong to an adjacent estate, the proprietor of which has hitherto allowed the gratuitous use of the water; but, on account of some difference with the present management at the works, every obstacle is thrown in the way of the company, and the latter will, probably, have to pay a considerable sum of money, or the works, it is feared, will come to a stand.

Last week, the Burra Burra shares of the South Australian Mining Association got up to 102t. 10s. on receipt of advices, per John Bartlett. They are now at 105t, cash buyers; but many shares have changed hands at 200t for payment in three years, with interest in the meantime at 6 per cent. per annum. Our colonial readers know, that dividends to the amount of the whole original capital have already been paid; and a third dividend (namely, 100 per cent.) will be payable in a few days.—Adelaide Observer, Aug. 7.

Morse's Telegraph in Turker.—A model of this telegraph has been exhibited, and fully worked, before the Sultan, in one of the halls of the palace, at which he expressed himself highly gratified. After two hours' attention to it, he requested it might remain until next day, for exhibition before the ministers and viziers. The Sultan afterwards decreed a diploma and decoration for Professor Morse.

for Professor Morse.

BRIDGE OF THE NIAGARA FALLS.—In the Mining Journal, of 22d ult, we mastered a notice of a proposed suspension-bridge across the falls; thus uniting Canada and the United States. We now learn, that, after being several days in session, the company have decided on its immediate construction, for the passage of railway trains. The supporting chains are to be tested to 6500 tons, the cost not to exceed \$190,000, and the bridge to be complete by May 1st, 1849. Mr. C. Ellet, jum, of Philadelphia, is appointed engineer. This noble erection will be 800 ft. span, 230 ft. above the water, and will command a view of both the falls and the whitripool.

ANTHEACTER AS FUEL IN LOCKMOTER EXCENSE.—An englace for here.

ANTHRACITE, AS FUEL IN LOCOMOTINE ENGINES.—An endless fire-bar, revolving on two rollers, similar to Jukes's patent in England, which we have often noticed, has been introduced in America, to locomotive fire-boxes, by Mr. W. G. Henniss, of Pottsville, for the consumption of anthracite coal; and, it is said, the invention has met with complete success, and the decided approval of scientific men.

CALEDONIAN RALLWAY.—We understand that, although the mail trains on the Caledonian commence to run at rates, varying from 16 to 17, or 18 hours, betwixt Edinburgh, Glasgow, and London; yet, on, and after, the 1st of March, express trains will run betwixt London, Edinburgh, and Glasgow, in 13 hours; betwixt Liverpool and Manchester, and Edinburgh and Glasgow, in 8 hours; and between Birmingham, Edinburgh, and Glasgow, in 9½ hours.—Caledonium Marcura.

Rolley and the same of the shareholders in this company, who had no confidence in the management of the present directors, having met, and appointed Mr. Gurney, of Launceston, and Mr. W. D. Wills, of Bristol, as a deputation to proceed to London, and have an interview with them, again met on Friday last, at the White Hart, Launceston, to hear the report of the deputation. Mr. Gurney entered into an elaborate and detailed statement of the proceedings that had taken place in London; where, though it was generally agreed, that if the undertaking were properly managed, it would be a very profitable one, it was admitted by all that no confidence could be placed in the present directory. This was attributed, first, to the fact, that when the undertaking was amounced and there was not the least difficulty in getting the capital, nearly 5000 shares were reserved, and no deposits paid on them; and, secondly, to the fact, that they had spent nearly 80,000. on this line, of from 24 to 28 miles. without making any progress, or doing anything else, after passing the bills, then pay the directors and their staff. The attendance of the shareholders was requested at the next general meeting, when a new body of directors would be proposed.—Plymouth Journal.

Presidual Accident from the Burtling of a Boiler at Manchester—Eight Lices Lost.—Our

Dreadful Accident from the Bursing of a Boiler at Manchester—Eight Lives Lost.—Our Manchester correspondent, writing yesterday afternoon, informs us of a dreadful accident, which has occurred in that town, from the bursting of a boiler at the manufactory of Mr. Thomas Riley, spindle and flymaker, Mediock-street, Ardwick. The catastropies occurred about half-past cight o'clock yesterday morning, and eight human beings, varying from 20 to 30 years of age, were sent to their last account, without a moment'swarning. Five of the unfortunates were workpeople, in the employ of Riley, the owner of the boiler. Two children, belonged to a butcher, named Wardsworth, resident in the neighbourhood; and another was the child of a blackmith, whose forge was in the same yard as Riley's manufactory; and which was also completely destroyed. There were others seriously hurt, and they lie at the Manchester Infirmary in a dangerous state. It was currently reported in the neighbourhood of the accident, that the boiler has been considered in a dangerous condition for some time past, and that people have refused to work at the manufactory in consequence. It was, therefore, thought proper to take Riley into custody. Another thing which tells against him is, that the person whom he employed to take charge of the engine, was a boy, only 15 years of age. This boy's name was Joseph Atkinson, and he was killed. The accident has, of course, caused great excitement in Manchester, and the inquest, which will, doubtless, be held this day (Saturday), is looked forward to with great anxiety.

MINING IN SOUTH AUSTRALIA.

We have pleasure in directing attention to a very important communication, which we received yesterday, from our intelligent correspondent in South Australia, and inserted in another column of this day's Journal. So much of mis-statement, and vague assertion, having appeared with respect to mining in that colony, an authentic report on its actual position, by one so evidently well qualified, must prove of general interest, and great value to those immediately concerned.

The Combemarter Mine.—Some very beautiful specimens of articles of ornament, and also of utility, have recently been manufactured by Mr. H. Ellis, silversmith of Exeter, from the silver extracted from the ore of the Combunten Mine, North Devon. They consist of baskets, napkin holders, &c., and are of elaborate workmanship—being elegant in design, and very delicate in the finishing. Her Majesty the Queen has extended her patronage to the manufacturer, and, besides other things, has become the purchaser of several elegant brooches, for which Mr. H. Ellis has obtained a registered right under the Act 6th and 7th Victoria, c. 65. These brooches are very ingeniously constructed, and are so contrived, that any shawl, or portion of the dress fastened by them, cannot be lossened, except by removing the brooch; nor can the brooch be removed either by accident or force, unless so great as to break it. The pin, or tongue of it, is secured by passing through a groove, and the point is received into a small sheath; a chain depends from the pin, which must be drawn perpendicularly, or in a straight line with the pin, to extract it from its position. The contrivance is difficult to be described by words; but is, nevertheless, so simple as to be understood directly it is seen; and it may be seen at the agents of the inventor, Messrs, Green and Banks, Hatton-gardén, It can be made of gold and ornamented in any manner. The silver extracted from the lead ore of the principal lode in Combemarten Mine, is, on an average, of 60 ozs. of silver to a ton of lead; this is considered as a very fair proportion.

New Aeronactric Ship:—A letter from Rotterdam, dated the 7th instructed the Mr. I. de Ruiter her invented an accounting a consequence which

Current Prices of Stocks, Shares, & Metals.

Bank Stock, 9 per Cent., 203 200
3 per Cent. Reduced Ann., 89\$ \$
3 per Cent. Console Ann., 89 \$
5 per Cent. Annultes.

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1 per Cent. Annultes.
- 3 per Cent. Console for Acc., 241 3
3 per Cent. Console for Acc., 89\$ \$
2 Exchequer Bills, 10001. 3d., 21 18 pm.

STOCK EXCHANGE, Saturday morning, Eleven o'clock. Belgian Bonds, 44 per Cent., 91
Dutch, 24 per Cent., 94
Dutch, 24 per Cent., 64 §
Brazilian, 5 per Cents., 85
Chilian, 6 per Cents., 824
Mexican, 5 per Cents., 824
Ditto 3 per Cents., 214
Ditto 3 per Cents., 22
Russian, 5 per Cents., 104
Russian, 5 per Cents., 104
Russian, 5 per Cents., 110
§ 2

MINES.—During the week an average amount of business has been transcted, especially in our dividend-paying mines, and those on the eve of doing so.

From our country correspondents, we learn that several mines have con siderably improved; and it is manifest that, with a fair standard for our copper ores, we should find the mining interest in a flourishing and satisfactory position. Since our last, the standard has been advanced; slight as it wre, it must have been gratifying to all interested in this great measure, as it encourages the hope that a more favourable period is approaching; and we ardently trust, that that season is not far distant when we shall find all parties united

it rust, that that season is not far distant when we shall find all parties united in promoting the welfare and prosperity of this great national interest.

It is with regret we learn, that the English Copper Company have ceased to purchase during the past few weeks, and more especially that they should have declined to accept their bills, now coming due. However unfavourable the omen may appear, we have every reason to believe they will be duly honoured. The directors of Caris Brea paid, on Tuesday, 2L per 1000th share, being the six tieth dividend paid since her recommencement.

Business has been done in Devon Great Consols since our last, and we find negociations are still going on for several more, as well as in East Wheal Rose, North Roskear, North Pool, Carn Brea, South Wheal Francis, and Treviskey and Barrier. Herodsfoot has improved in the 62 fm. level north, where they have a fine course of ore, with backs of upwards of 24 fms. of maiden ground.

Devon Great Consols is reported to have considerably improved in Hitchen's shaft, at Wheal Josiah, the lode being worth 80L per fm.; last week it was estimated worth 60L.

shaft, at Wheal Josiah, the lode being worth 80% per fm.; last week it was estimated worth 60%.

Wheal Franco has been sought for at an advance on our last quotations, in consequence of the general improvement in this mine, but more particularly from the cutting the lode good in the 47 fm. level.

Holmbush and Condurrow are reported to have considerably improved of late. Mendp Hills have been in request, and soveral transactions effected. A large number of Bedford United shares have also changed hands. Tavy Consols have been done at an advance, and they are still progressing; it is anticipated that a dividend will be declared in June.

In foreign shares there have been several transactions since our last, especially in the following mines—viz.: St. John del Rey, Real del Monte (as well as the loan notes), Asturian, Bolanos, Barossa Range, Imperial Brazilian, Alten, &c. The dispatches received from the Barossa Mines are of a very satisfactory and highly favourable character, and we have no doubt these mines will take a high stand among the Australian Mines.

a high stand among the Australian Mines.

We learn that the North British Australasian Company (who are also the proprietors of the Kawaw, and large holders of the Bonaccord Copper Mines,) have been advised of a sale of a portion of land in the colony, realizing 6000?, which had hitherto been considered of but little value by the company. This important piece of information created a demand for, and rise in, the price of, shares.

Shares in the following mines have been sold during the week—viz.: South Tolgus, Tavy Consols, Bedford United, Franco, Plymouth Wheal Yeoland, Treviskey and Barrier, Devon Great Consols, Trehane, Great Roughtor, Herodsfoot, Mendip Hills, Treleigh, Condurrow, East Wheal Friendship, South Wheal Betsey, Callestock, South Wheal Basset, &c. &c.

When Betsey, Canestock, South Wheal Basset, &c. &c.

Arrivals of specie since our last:—Southampton, Feb. 3d.—Ex Peninsular and Oriental Company's ship Jupiter, 16 packages of specie, value, 12,500. 7th,

—Peninsular and Oriental steam-ship, Erin, from Mediterranean, 22 packages of specie, valued 59,758., and general cargo. 9th.—Ex New York and Waterloo at Liverpoool, from America; the former with 12,000., and the latter 22,000. value, in specie.

ter 22,0002. value, in specie.

RAILWAYS.—There was nothing of interest to record in the proceedings of the market on Monday; a slight depression in the public funds affected it in like manner. On Tuesday, no improvement could be noticed; and, in many instances, orders to purchase were suspended. Business remained much in the same state on Thursday and yesterday, although things were certainly not worse than in the earlier part of the week; business was contracted in amount, and without any prospect of improvement.

and without any prospect of improvement.

MEETINGS.—WAVENEY AND GREAT YAMNOTH: to lay before shareholders situation of affairs. Receipts had been 35,875.; and expenditure, 31,4924.: leaving a balance in favour of the company of 43824.—KILLAMNEY AND VALENTIA: not having made the necessary arrangements, it was decided to adjourn to the 16th of Aprill.—LANGSTER AND CARLISLE: from the opening of the line to 3ist Dec. last, the receipts had been 76,4191: leaving a credit balance of 43,8004. A dividend was deciated of 90s. per share, and 4s. per third.—GREAT NORTH OF ENGLAND: half-yearly; dividends on the several descriptions of shares were declared, equal to 10 per cent. per anum.—Liverpools. MANCHESTER, AND NEWGASTLE JUNCTION: to consider the propriety of proceeding or otherwise; adjourned to 30th of March next.—SALISBURY AND YEVOUL, AND YEVOUL AND EXEKTER: resolutions passed in favour of presenting petitions to Parliament, for the construction of these lines.—VALE OF NEATH: half-yearly; the South Wales Railway had agreed to subscribe for 6389 shares. The works in the lower part of the valley were expected to be open in 12 months; the receipts had been 104,9701.; and expenses, 30,0851.: paving a balance of 74,8851.

HULL, THURSDAY.—The unfavourable half-yearly report of the Brighton Company, and a rumour that the London and North-Western will only pay at the rate of \$\beta\$ per cent., have contributed, with other circumstances, to throw a slight shade of gloom over the share market, which, however, we hope the full result of the meetings will clear away. It is imperative on all boards of direction to have no mystification as to their exact position—especially as there is a feeling abroad to make the most of any disposition of this kind to the detriment of the holders of stock. Darwens, which declined the other day is 10% to 10½ dis., owing to a sule under peculiar circumstances, have since recovered, and may now be marked 10% to 9¼ dis. North British fister. Dock shares have changed hands during the week, at about 1820. ex. or 1900% with, dividend—at which rates buyers and sellers might still be found.

RAILWA	Y TI	RAPPIC R	ETUR	VS.	725	76
Name of Railway.	Lgth. Rway.	Present ac-	Price per share	Last Div.	Traffic I	Return 184
Arbroath and Forfar	16	£179,939	26	4p.e.		21
Birkenhead, Lancashire, & Chesh.		706,793	381	-	£662	47
Dablin and Drogheda	35	733,655	52	34	657	65
Dublin and Kingstown	74	473,282	-	7	689	64
Dundee, Perth, & Aberdeen June. East Anglian (Lynn to Ely)	26	285,745 908,892	30	6	662	30
East Lancashire	24	1,207,490	214	TO TO	432	1 -
Eastern Counties	2021	7,698,370	154	5	1052	914
Eastern Union	50	979,926	45		1082	82
Edinburgh and Glasgow	53	2,375,745	43	6	3274	306
dinburgh and Northern	29	953,207	21	_	612	300
lasgew, Paisley, and Ayr	641	1,890,547	72	12	1634	195
lasgow, Paisley, & Greenock	23	838,964	174	3	913	95
it. Southern & Western, Ireland	1101	1,876,326	24	-	1754	94
Freat Western	269	10,630,763	1014	8	16839	1620
Kendal and Windermere	104	147,001	23	-	91	-
ancaster and Carlisle	70	1,291,913	53	-	1038	-
ancashire and Yorkshire	921	6,807,314	884	7	7902	795
ondon and North Western	428	20,010,467	146	9	34956	3444
ondon and Blackwall	4	1,146,289	6		636	71
ondon, Brighton, & South Coast	1524	5,659,180	374	9	6202	529
ondon and South-Western ondonderry and Enniskillen	144	5,836,132	50±	3	6576	517
fanchester, Sheffield, & Lincolnsh.	46	2,078,135	80	.5	1990	173
Iaryport and Carlisle	28	424,417		3	523	58
lidland Company	4024	8,658,604	414	7	17944	1681
fidland Great Western (Irish)	364	583,776	33-33	- 1	607	-
lewcastle and Carlisle	65	1,184,080	117	6	1974	183
forfolk	814	1,375,633	80	6	1611	129
forth British	78	2,514,150	26	5	1716	129
brewsbury and Chester	17	591,158	17	100	504	296
outh Devon	29	1,339,860	23	depoi.	633	381
outh-Eastern	165	6,398,218	30	6	6364	623
aff Vale	25	785,607	52	54	1541	1269
Vhitehaven Junction	12	130,000	08	6	583 155	719
ork, Newcastle, & Berwick	2364	3,685,102	35	9	9843	7940
ork and North Midlend		3,196(969	764	10	5654	5003
FOI	EIG	RAILWA	VS.	order regist	hers Dies	of I
miens and Boulogne	684	573,388	138	4 1	910	-
ntwerp to Ghent (monthly)	31	-	1	-	1100	-
elgianditto	-	-		-	46247	43741
utch Rhenish	571	-	15	-	-	820
orthern of France	211	2,000,000	ill	4	12275	8503
rleans to Bourges (Central)	1074		A STORY	-	2218	-
rleans to Tours	72	600,000	THE PARTY OF	5	2410	2399
aris and Orleans	82	2,011,720	474 35	124	6797	6309
aris and Rouen	85	2,082,916		94	5746	5749
ouen and Havre	591	LANGE RESIDE	47	4	2272	17
trasburgh and Basle (monthly)	88	14022-00000800	115	11	5892	2.00

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0,000

9,100 1,500 8,000 10,000 90,000 11,600 6,600 8,387 8,000 10,000 1

THAMES TUNNEL COMPANY.

NATIONAL DEFENCES. By WILLIAM MALINS.—
A PLAN, submitted for the consideration of Government, whereby any required
Force, of the heaviest Artillery and Troops, may be concentrated at the point of danger,
so as to arrest a hostile Fleet under the Fire of Movesable Batteries, traversing on a Ballroad at High-water line of Coast, where assailable. The Electric Telegraph, carried along
the same line, would convey notice of the approach of an enemy. From the Harbours of
Refuge, Block-ships and Steamers might quickly arrive to attack the enemy in flank and
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ner of Essex-street).

LATEST CURRENT PRICES OF METALS.

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Sheet ,,	0	0-11	10	0	Refined 4 4-4 6 0
Bars	9	10-10		0	Straitsh 0 0-3 16 0
Welsh cold-blast?	-				Banca 0 0-4 4 0
foundry pig \$		0-4	10	0	TIN-PLATES-Ch., IC 6, box 1 8- 1 10 0
Scotch pig b, Clyde		0- 2	10	0	, IX 1 14- 1 16 0
Rails, average		0-7	10	0	Coke, IC 1 4- 1 5 0
Chairs	0	0 - 5	5	0	, IX 1 10- 1 11 0
Russian, CCND c	17	10-18	0	0	LEAD-Sheet &ton 0 0-19 0 0
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Gourieff	0	0-	-		, common 17 10-17 15 0
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Ordin. sheets, lb	0	0-0	1		QUICKSILVER

a in kegs 1 and 1 inch. f Discount 3 per cent. f Ditto 2 per cent. h Not cash In bond. I Discount 3 per cent. I Ditto 2 per cent. l Not cash subject on the per cent. I Discount 1 per cent. For home use it is 32/. per ton.

* Those marked with an asterisk (*) are dividend per share.

IRON.—Welsh is about 5s. higher than last week, owing to an improved demand. Of Staffordshire, our quotations must be considered nominal—the stocks being low, owing to the men still remaining out on strike; the holders will not sell at the proposed reduction, until they see their way clear to replace. Scotch is rather dull again. In foreign nothing doing.

Copper has been rather more in demand since the late reduction.

Th has been unsettled within the last few days, by some sales under the established vates—viz., at our lowest quotations; but whether or not this will tead to a general reduction among the smelters, is uncertain—a few days, at most, will determine this.

TIN-PLATES, of coke quality, have been in request during the last 10 days, and we quote them at an advance of is. per box.

Spelters continues dull as to demand, but holders are firm as to price; a parcel of 80 tons, but not held by a dealer, was sold this week at 194.5s.

GLASGOW, FEB. 10.—We have had a dull market in pig-iron for the last week—the price, however, continues firm at our last quotations—viz., 50s., cash, for mixed Nos. A shade less is reported to have been accepted for cash down.

COAL MARKET, LONDON.

COAL MARKET, LONDON.

PRICE OF GOALS PER TON AT THE CLOSE OF THE MARKET.

MONDAY.—North Percy Hartley 18—New Tanfeld 15—Ord's Redheugh 16—Tanfeld Moor 16 6—Townley 16 6—Wylam 17—Wall's Rad Gosforth 18 9—Braddyll's Hetton 20—Haswell 21—Hetton 20 6—Lambton 20—Shotton 20—Stewart's 20 9—Seymour Tees 19—Sidney's Hartley 18 9.—Ships at market, 238; soid, 79.

WEDNESDAY.—Adair's Main 16—Buddle's West Hartley 17 6—Chester Main 16—Dipton Tanfeld 14—Hasting's Hartley 17 6—New Pelton Main 14 6—New Tanfeld 14 6—Townley 15 3—Wylam 17—Wall's End Hedley 17—Hilda 16 9—Killingworth 17—Eden Main 18 9—Braddyll's Hetton 18 6—Haswell 29—Keepler 18 6—Stewart's 19—Hudson's Hartlepool 18—High Thornley 16 6—Trimidon 17 6—Denison 17 6—Seymour Tees 18 6—Toea 19—West Hetton 17 6—Howard's West Hartley Netherton 17 6—Ships at market, 289.

FEIDAY.—Adair's Main 18 6—Gleater Market Main 18 6—Relight Notes 18 6—Relight Notes

at market, 289.

FRIDAY.—Adair's Main 15 6—Chester Main 15 9—Carr's Hartley 16 6—Davison's West Hartley 16 6—Dipton Tanfield 13—Hasting's Hartley 17—North Percy Hartley 16 16—New Tanfield 14 6—South Peareth 15—Tanfield Moor 16 3—Wylam 16 6—West Wylam 16 6—West Hartley 16 6—West Wylam 16 6—Belmont 17 Gowley 17—Klijingworth 17—Northumberhand 15 9—Washington 15 6—Eden Main 18 6—Belmont 17 6—Braddyll's Hetton 18 3—Bell 17—Burnhope 15 6—Keepier 18 6—Lambion 18 3—Caradoc 18

NEW PATENTS.

R. Fowles, gent., North Shields, Northumberland, for improvements in propelling.

J. Bird, gent., Cwm Avon Works, Talback, Glamorgan, for certain improvements in

G. Dirk, gent., win Avon works, Tabacs, Gamorgan, for certain improvements in Hadid measures.

G. A. Erman, Manchester, cotton-spinner, for certain improvements in machinery or apparatus for twisting cotton or other fibrous substances.

R. C. Burleigh, gent., Featherstone-buildings, Middlesex, for improvements in burners for obtaining or producing light and heat, and in apparatus to be used therewith.

J. Brett, Hanover-square, Middlesex, for improvements in electric printing and other telegraphs.

telegraphs.
W. H. Glover, Stone Bridge, Chester, for improvements in the manufacture of oil

W. H. Glover, Stone Bridge, Chester, for improvements in the manufacture of oil from blubber.

J. N. Zearman, Greenwich, Kent, for improvements in ships and other vessels.

W. Sangster, Regent-street, Middlesex, for improvements in umbrelias and parasols.

L. Hebert, Ryde, Isle of Wight, C. E., for improved machinery for reducing, grinding, and sifting bark, sugar, coffee, seeds, and other substances.

W. P. Figgott, Oxford-street, and Wardrobe-place, Doctors' Commons, for certain improvements in manufact instruments, and in the manufacture of cases for containing instruments, goods, or merchandise.

J. M. Magnin, Villefranche, Rhone, France, avocat, for improvements in machinery for sewing, embroidering, and for making cords or plats. (Being a communication.)

F. Douche, Rouen, France, for certain means, processes, and apparatus for proventing in many cases the escape of heat through bollers and apparatuses, and for saving and applying the lost heat in general, and sometimes direct heat, to many useful purposes.

W. J. Camono, Cambridge, solicitor, for improvements in the construction of carriages for the conveyance of sheep, and other animals on railways.

G. A. Buckhobz, gent., Forston-street, Middlesex, for improvements in obtaining motive power.—Mechanics' Magazine.

JOINT-STOCK BANKS.

Bhares.	Companies.	Paid.	Div.	D.	cent.	Pri	ce.
22,500	Companies. Australasia	£40		Êã	******	£15	100
20,000	British North American	50		6	*******	. 43	45
20,000	Colonial	25		B	******	144	
-	Commercial of London	20		6		20	-23
	Ionian State			6		241	25
	London Joint-Stock			6	** ** **	16	
	London and Westminster			6	** ** ** **	25	
- 10,000	National Provincial of England	35		5	*******	36	
20,000	National of Ireland	224		5		194	19#
.20,000	Provincial of Ireland	25					
4,000	Ditto New	10		8		15	16
20,000	Union of Australia	25		6		23	25
10,000	Ditto New	24		6		24	24
60,000	Union of London	16		5		10	104

	MISCELLANEOUS	CO	MPAI	VIES.		
thares.	Companies.	Paid	1. D	iv. p. cent.	Pri	ce.
10,000	Assam Tea Company	£20	*****		£ 3	
1,080	Auction Mart	-	*****	. £ 1		
10,000	Australian Agricultural	20				
10,000	Australian Trust	35				00
8,000	British Alkali	25		. 4		
10,000	British American Land	35				110
8,600	British Rock and Patent Salt	35		. 18		
8,915	Canada					
1	City Bonds (Navigation)			. 31		
1,800	Corn Exchange	37		. 14		1
0,000	Drottwich Patent Salt.					
2,700	Equitable Reversionary			44		800
-	General Reversionary Interest		*****			105
0,000	General Steam Navigation		******			
-	Hudson's Hay Stock					
		100				
1.000	London Commercial Sale Rooms	-	******			32
0,000	London Reversionary					24
		-		. 10	. 196	
0.000	Mexican and South American	- 90				
000,DI	New Brunswick	75				25.0
1,600	Peninsular and Oriental Steam	50		7		100
6,600	Ditto	40				200
5,387	Reversionary Interest Society	100	10.00000	48*	95	
CONTRACTOR OF STREET	Royal Mail Steam	3277				1
8,000	South Australian	95	COLUMN	6		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	pper Camada	100		5	. 93	94
1.000 I	Hitto		131 231 635 67	CHICAGONICA	-	91
1,000 1	Van Diemen's Land	90	CONTRACTOR OF			-

PRICES OF MINING SHARES.

Parces or a	HARRES.
Shares. Company. Paid. Pric	BRITISH MINES—continued.
I 1000 Abanemassin 7	ORD OAL TOUR A SECOND
13 Albert Consols 1 2 1024 Alfred Consols 4 30 30 42 43 43 44 44 45 45 45 45	200 South Harvannah 10 25
256 Alternum Consols 3 15	256 South Tolgus 74 50-24 256 South Trelawney 20 84 128 South Yeoland 164 20 128 South Wheal Basset 110 83-90 256 South Wheal Basset 110 83-90
235 Andrew and Nangiles 284. 11 1624 Balleswidden 9 . 18	128 South Yeoland 164 20 128 South Wheal Basset 110 85-90
128 Balnoon Consols 25 25 10000 Banwen Iron Co 2 —	128 South Wheal Basset 110 129 South Wh. Botsey 24 5
1 1000 Barristown 44 10	256 South Wh. Hope 5
1 128 Besore Lead Mine 14 10	1000 South Wh. Maria 22 2
315 Birch Tor Tln Mine 241 — 8000 Blaenavon 50 23	256 South Wh. Sophia 4 42
100 Botallack	
10000 British Iron, New, regis. 10 11-11	256 St. Austell Consols 0 6
— Ditto ditto, scrip 10 12 128 Budnick Censols 524 40	128 St. Michael Penkivel 5 104
128 Burthy 20 21	1000 Stray Park 43 . 174
- Ditto ditto, scripp. 10 12 128 Budnick Censols 524 40 128 Burthy 20 21 100 Bwich Cwmerfin 20 - 128 Callestock 17 30	9600 Tamar Consols 3 4 1024 Tavy Consols 4 13
1000 Callington 19 32 20000 Cameron's Steam Coal 4 54-	6000 Tincroft 7 8
256 Caradon Copper Mine 91. 2	1000 Tin Vale
256 Caradon Copper Mine 94. 2 256 Caradon Mines 224. 17 256 Caradon United 24. 5	
256 Caradon United 24 5 256 Caradon Wh. Hooper 21 15 1000 Carn Brea 15 105	2000 Treleigh Consols 6 3 2000 Trenance 2 50 96 Tresavean 10 250
1 2048 Cuscade	96 Tresavean 10 250
112 Charlestown220 30 166 Cleveland 9 5	120 Treviskey and Barrier 130 140
512 Coatlithe Hill 2	128 Trewellard 12 264
1900 Combnuttin 74 8 500 Comblawn 54 6	
500 Combiawa 54 6 128 Comfort 45 90 256 Condurfow 20 31-2	128 West Basset 45 30 256 West Caradon 20
2560 Cook's Kitchen 14 2	256 West Caradon 20 120 128 West Cargoll 2 . 12
2048 Coombe Tin Mine 4 2 1000 Coombe Valley Quarry 2 3	128 West Cargoll
1000 Copper Bettom 1 1	200 West Selon 40 . 150
1000 Coombe Valley Quarry 2	West of Scotland IronCo. 210. 210
500 Cubert Mine124 15	120 West Trethellan 5 30 256 West Wh. Friendship. 9 12 3845 West Wheal Jewel 11 1
2048 Dartmoor Consols 3 2 300 D.Prior & Buckfastleigh 14 26	
7500 Demelza Mines 2 2	256 West Wheal Shepherd. 5 21 256 West Wheal Tolgus 211 5
7500 Demeiza Mines 2 2 7100 Derwent	256 West Wheal Shepherd 5 22 256 West Wheal Toigus 212 5 256 West Wheal Treasury 19 10 5200 Wicklow Copper 5 124
1024 Deven Great Consols 1 210-1	184 Wheal Adams 51 10
186 Dolcoath	ose Wheel Alliant
2560 Drake Walls 4 4 10000 Durham County Coal. 45 9	128 Wheal Acland 13 . 2 256 Wheal Allen 2 . 5
3000 Dyfngwm	240 Wheal Anderton 21 28
112 East Caradon 42 42 2048 East Crowndale 51	128 Wheal Ann
512 East Combe Silver-Lead 64 64	512 Wheal Anna Muria 5
128 East Pool	120 Wheal Bal 54 20
100 East Relistant 2 2 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2560 Wheal Barbara 13 4-5 256 Wheal Benny 104 6
256 East Wheal Fortune 2 3	256 Wheal Benny 102 6 256 Wheal Blencowe 21 5 256 Wheal Bucketts 20 5
128 East Wheal Rose 501150	256 Wheal Calstock 3 8 136 Wheal Clifford 190 190 1024 Wheal Cond 5
- East of Scotland Iron Co. 21 1	1024 Wheal Coad 5
123 East Wheal Seton 14 15	128 Wheal Courtenay 20 6000 Wheal Curtis 21 22 256 Wheal Dyke 12 13
256 Exmoor Wh. Eliza 34 6	256 Wheal Dyke
512 Fowey Consols 40 45 6400 Gadair 2 2	512 Wheal Fortune Consols 34 64
6400 Gadair	2048 Wheal Frederick 2 2 388 Wheal Franco 27 30
2048 Georgia Tin Mines 12 12	128 Wheal Harriet
256 Gonamena 311. 45 128 Goonvrea 4 14	256 Wheal Louisa 8
2444Grambler & St. Aubyn - 10	112 Wheal Margaret 79 250 512 Wheal Mary Ann 5 17 256 Wheal Mary Consols 38 25
100 Great Consols 1000 400 256 Great Callestick Moors 22 25	256 Wheal Mary Consols 38 25
2560 Great Michell Consols 11 31 256 Great Resugga Moor 7 12	210 Wheal Prospect 4 . 7 120 Wheal Reeth 27 80 128 Wheal Rose 60 15
512 Gt. Wh. Rough Tor Con. 154 18	2048 Wheal Samson 1 20
256 Gwinear Consols 7 18	99 Wheal Seton2141000
6000 Heignston Down Con 2. 21 256 Herodscombe 42. 42.	256 Wheal Sophia 54 10
256 Herodsfoot 16 18 10000 Hibernian 121 15	128 Wheal St. Ann 9 15
239 Hobb's Hill 6 3	260 Wheal Trelawney 75 95 256 Wh.Tremaine(St.Ervan) 41 20
827 Kirkendbrightshire 52 44	256 Wheal Tremayne 35 25
500 Lady Elizabeth 5 5 2048 Lamherooe Wh. Maria 11 4	128 Wheal Trew 20 21 256 Wheal Trevenna 3 4
128 Lelant Consols 90 60	256 Wheal Trevenna 3 4 92 Wheal Tryphena 140 265 121 Wheal Volumena
1000 Lewis 15 6	256 Wheal Vlow (Perrang.)
1000 Llwyn Malees 5 — 3600 Llynvi Iron 50 50	256 Wheal Williams 6 12
256 Lostwithiel Consols 15 15 6000 Marke Valley 10 3	The state of the s
5000 Mendin Hills 24 14	FOREIGN MINES.
5000 Merionethshire Slate 11 2	
20000 Mining Co. of Ireland 7 · 71 256 New East Crowndale · 31 · 31	5000 Alten Mining Company 141 344 15000 Asturian Mining Co 12 · 4-41 20000 Australian · 21 · . 34
128 North Fowey Consols., 30 30	10000 Anglo-Mexican Co 100 2
100 North Poul 45 . 475	6000 Barossa Range 2
256 North Wh. Abraham 1 1 262 North Wh. Leisure 1 2 128 North Wh. Providence 2 3	1 3000 Rolanos 150 32 1
128 North Wh. Providence 24. 3	12000 Brazilian Imperial 23 74
128 Par Consols 23 . 2	10000 Cobre Copper Co 40 18 8500 Colombiau Co. regis
4000 Pennant 11. 11	5000 Ditto Scrip 54 5 5000 Copiapo Mining Co 14 24 10000 General Mining Ass'n. 20 134
1280 Perran St. George Un. 13 20	10000 General Mining Ass'n. 20 · · 13 5000 Kinzigthal Mining Ass. 2 · · 3
128 Perran Wh. Virgin 94 15	1 1 d 10

SOUTH AUSTRALIAN SHARE MARKET-AUG. 6.

15.12	Company.	No. of S	hares.	Capital	 Paid-up.	P	resent P	rice.
Burra	Вшта	246	4	£12,320	 £12,320 .		105	cer.
Prince	ss Royal	40	0	20,000	 14,800		70	0
	de				10,000			10
	Kapunda				21,800			10
Royal	Mining Company	1000	0		10s. p. sh.		- 0	12
	eld				£1,000		1	0
	ock Creek				2,500			16
roona	wurta	100	0	2,500	 2,000		U	10

*. We should feel greatly obliged by agents, or others interested, furnishing us with such corrections for our Share List as we may not have received through our usual channels of information—our object being, to present as accurate a list of prices as can be obtained—to procure which, we solicit the aid of correspondents in general.

GAS-LIGHT AND COKE COMPANIES.

Shares.	Companies.	Paid.	Div	p. cent.	Price	e.
5,000	British (London)	£18 .		£1*	£174	1500
5,000	Ditto (country)	19 .		18******	234	Second S
1,000	City of London	100 .		10	290	
	Ditto New					
4,000	Equitable	50 .		5	384	
10,000	European	20 .		14	18	3.5
12,000	Gas-Light and Coke Chartered Co	50 .		6	554	56
6,000	Ditto New	10		6	11	114
9,000	General United Gas-Light Company	50 .		2	174	184
10,000	Imperial	50 .		6	75	1000
46,400/.	Ditto Debentures	100 .		4	100	String 1
8,000	Imperial Continental	391		414	54	56
	Ditto New			44*	61	201
	Ditto Debentures			8	100 1	102
2,000	Independent	40 .		6	64	
3,000	London	50		6		50
3,000	Ditto	50 .		8	35	464 3
9,000	Phonix, or South London	43 .		5		BUTTE
1,000	Rateliff	80 .		B	80	3003
	South Metropolitan	95		6	30	32

CURRENT PRICE OF GOLD AND SILVER. Foreign gold, in barsper oz. 23 17 9 New dollarsper oz. 20 4 91 Portugal pieces 0 0 0 Silver in bars (standard) 0 4 115 Graden Benders.—A novel method of constructing girder bridges has been patented by Mr. H. Sadler, of Holbeck, Leeds; it consists in casting girders of iron deepest in the centre, and forming a semi-arch to each and. Each girder is placed on the piers extending from the centre of one arch to the centre of the next, the two parts of each thus balancing each other, and the ends of every two girders are connected by plates over the centre of each arch. The floors on which the rails are to be laid, he proposes to construct with three ribs, to give the requisite strength, overlapping other plates with two ribs in each; the plates have square studs, and corresponding holes, the former entering into the latter. Holes are formed in the plates, for the purpose of bolting the chains to them.

Cepracuse Inox-Works.—These works, at present, manifest a more promising aspect than what they have for months past. Several members of the company have visited the place during the week; their presence, words, and actions were very encouraging to the labouring class and the neighbourhood at large. Money is more plentiful than what it has lately proved to be. — Cambrian.

Content dent sport	LEAD ORES Sold at the Mine.
ditto	Tons. Amount. Purchasers. 100 £11 15 0 Sims, Willyams, & Co. 75 12 6 ditto 28 11 11 0 ditto 28 11 11 0 Walker, Parker, & Co. Total tons 231
Foxdale	Sold at Holyncell. 110 210 12 6 Walker, Parker, & Co. 110 210 10 0 ditto 10 0 ditto 10 10 10 10 10 10 10 1
Herodsfoot Trelawney	Sold at Liskerd. 50
Sol	BLACK TIN. l at Angarrack Smelting-House, St. Erth, Jan. 28, 1848.
Coinage	Tons cuts. qrs. lbs.
Mine. St. Agnes Consols ditto	Tons. Price per ton. Purchasers. 6 £37 17 6 Williams and Co. 22 0 0 Calonick Smelting Co.
Samulad	COPPER ORES. Jan. 26, and Sold at Andrew's Hotel, Redruih, Feb. 10, 1848.

Mines.	Tons.		1	ric	e.	Mines. Tons.	Pri	ice.
Carn Brea	108	****	£5	15	0	Wh. Rodney 41 £	2 4	
	106		. 5	.4	0	ditto 34	3 5	
ditto	100		8	13	0	ditto 18	1 1	
ditto	93		4	4	0	West Prosper 17	8	
ditto	78		7	10	0	Gwinear Consols	0	
ditto	77		11	19	. 0	ditto 84	18	
ditto	74		11	18	6	ditto 26	0. 10	
ditto	73		4	8	6	ditto 6	16	
ditto	54		8	18	0	South Wh. Fortune 48	16	
ditto	46		9	19	6	ditto 38	0	
ditto	40		1	1	0	Wh. Jane 58	1 13	
Par Consols	99		5	16	.0	ditto 19	8	
ditto	74		7	11	6	Wh. Agar 57	1	
ditto	73		10	0	0	ditto 19	B	
ditto	70		9	8	6	North Wh. Basset 28	10	
Wh. Prosper	61		4	17	6	ditto 24 4	11	
ditto	41		1	7	6	Wh. Busy 34 5	18	1
ditto	40		4	2	0	East Relistian 31	9	- 6
ditto	38		4	3	0	Wellington Mines 29	11	-
ditto	32		3	16	0	Michell's Ore 21 2	19	
Wh. Tremayne	54		5	7	0	Wh. Vyvyan 15 4	4	
ditto	32		5	6	6	W. Wh. Providence 12 8	19	6
ditto	29		3	7	6	ditto 3 5	4	0
				TO	TA	PRODUCE.		
Carn Brea	849		20		213	Wh. Agar 76 £ 316	10	0

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Mines Royal 155 & 865 14
Vivian and Sons 427 2824 4
Vivian and Co. 391 2043 47
P. Grenfell and Sons 439 1489 8
Sins, Willyams, and Co. 335 1821 16
Williams, Foster, and Co. 400 3551 18

Copper ores for sale an Thursday next, at Andrew's Hotel, Redruth.—Mines and Parcels.—Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Wheal Anna Maria 1231—West Caradon 300—Marke Valley 261—Fowey Consols 238—Wheal Friendship 228—Bedford United Mines 116—Holmbush 98—Wh. Gordand 34.—Potal, 39066 tons.

Copper ores for sale on Thursday week, at Farquharson's Hotel, Truro.—Mines and Parcels.—United Mines 1169—South Caradon 360-Par Consols 334—Tresavean 264—West Wheal Jewel 164—Treleigh Consols 145—Wheal Comfort 78—West Trethellan 43—East Downs 34—South Toigus 26—Wheal Unity Wood 13—North Downs 10.—Total quantity of ore to be sold, 2637 tons.

Total tons..... 2148 £12,596 19 0

COPPER ORES

Sampled Jan. 19, and Sold at Swansea, Feb. 10, 1848.

Mines. T	ons. Prod	. Stand.	Pric	0.	Mines.	Tons.	Prod.	Stand.	Pric	e,
Cobre				6	Knockmahon .					0
ditto				6	ditte					0
ditto				6	ditto				8 1	. 0
ditto				0	ditto				5 11	
ditto				0				101		
ditto				0	disto				5 2	
ditto				0	ditto				8 2	6
ditto				0	ditto				6 17	
ditto				0	Berehaven				6 14	-0
ditto				0	ditto				6 15	6
ditto				6	ditto				6 18	6
ditto				0	ditto				7 1	6
ditto				0	ditto				7 14	6
ditto l	27 14	884 10	0 2	6	ditto	65	94	974	6 15	6
ditto	86 205	842 14	5 7	0	Burra Burra					0
ditto	66 21#	834 10	5 12	6	ditto					
ditto	63 14	88416	0 2	6	ditto	62	37	86 9	9 10	6
ditto	24 172	854 13	3 0	6	ditto	49	40	86 3	2 2	0
Cuba	16 13	894 1	9 14	0	ditto	39	34	854 2	6 15	6
dittol				6	ditto	33	394	854 3	1 11	0
ditto	96 124	894 5	3	6	Ballymurtagh	82	54	113	4 5	0
ditto				6	Hafodyllan	31	8	114	3 9	0
ditto				0	ditto	6	72	1034	5 5	0
ditto	87 12	. 904 8	15	0	ditto	1	54	1084	3 9	
ditto	84 121	. 914 8	16	0	Aberdovey	22	11	964	8 7	0
ditto				0	Davies's Ore		21	132	1 1	0
ditto	64 124	. 91 8	15	6	Llanidloes	6	144	9116	0 16	6
ditto				0	100000000000000000000000000000000000000		1111	417-1299	Section 1	

TOTAL PRODUCE.
 Cobre
 1380
 £17623
 4
 6
 Ballymurtagh

 Cuba
 829
 £9908
 8
 Hafodyllan

 Knockmahoa
 692
 4073
 13
 0
 Aberdovey

 Berchaven
 522
 3633
 19
 Davies's Ore
 Davies's Ore

 Burra Burra
 313
 9392
 14
 6
 Elanidloes

COMPANIES BY WHOM THE ORES WERE PURCHASED.

13		Tons.		
	Freeman and Co	43	£297 3.	0
	P. Grenfell and Sons	649	6862 3	6
	Sims, Willyame, and Co	- 260	3363 2	6
	Vivian and Sons	1100	10942 12	Q
	Williams, Foster, and Co	1305	12620 15	6
	Schneider and Co	306	6660 4	6
7	Smith	188 *****	3703 0	

NOTICES TO CORRESPONDENTS

V. D.: City, Feb. 10.

Application of sinc, salps "black-jack," is found abundantly in Cornwall, Dere, and other mining counties; calamine (the white and rad oxides of zinc) is modant. The reduction of blends to metal has not, however, yet been carried liably in England, from the great quantity of coals required to produce a conding portion of zinc—it is largely manufactured in Belgium, Germany, Sec answer the laster quastion on our own authority, but the following general stacy be faken as a close approximation:—Coals, 39,000,600 tens; iron, 1,500, ir. copper, 12,000 to 13,000 tons; idea, 20,000 tons; tim, 4000 tons; aliver (studing salt, porcelain clay, plustadego, ands for glass, milistones, fullers' earth, 5 not be less than 20,000,000. sterling per annum.]

We should feel obliged to all pursers, captains, or adventurers, to forward particulars of meetings, &c., of the mines with which they may be connected, on the carliest opportunity, that they may be published in the Journal with as little delay as possible.

lay as possible.

Mayallusuical Treatment of Ores.—We shall resume the publication of this important series of papers in our next Journal, and continue them regularly until completed.

We regret being compelled to postpone, among other matters, the Lecture of Mr. Hunt, on the History and Practice of Mining in the British Isles—but we shall endeavour to clear off all arrears in a Double Sheet next week.

B. X."—Our correspondent states, that his means are too limited for the expenses of a patent; we are not aware of any other mode of securing an invention, except by resistration, which sosts little, but only applies to "shape and design," and is not applicable to every kind of mechanical invention. We recommend our correspondent to apply to Mr. Campin, Patent and Registration Office, corner of Essex-street, Strand.

An Adventurer in Devonshire Mines"—Mitchell's Manual of Practical Assaving, or

An Adventurer in Devonshire Mines"—Mitchell's Manual of Practical Assaying, of Budge's Miners' Guide.

ston).-The insertion of the letter would subject us to an action for libel

*W. R." (Launceston).—The insertion of the letter would subject us to an action for libel, "A Miner" (Leek)—Should address the directors, at the office of the company. "A Friend to Legitimate Mining" (Cornhill).—We never heard of the scheme, or the parties: our correspondent should certainly satisfy himself, by inquiry, before cannecting himself with the undertaking.
We must impress upon our correspondents, the necessity of invariably furnishing us with their names and addresses; not that their communications should, consequently, be noticed, but as an enrace to as of their good faith.
The Mining Journal is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

THE MINING JOURNAL

Railway and Commercial Gagette.

LONDON, FEBRUARY 12, 1848.

The improvement in business, generally, which we had the happiness to announce in our last publication, has been well sustained throughout the week just closed. It is not in one direction, or in a single department only, that the favourable change is perceptible. There need no very powerful optics, to discern in every segment of the horizon, the signs and symptoms of a reviving commerce. In of the horizon, the signs and symptoms of a reviving commerce. In the metropolis, it is matter of personal observation and experience; and the accounts from the country concur in, and confirm, the representation. In some of the iron districts, hopes are entertained of orders flowing in; which, we have reason to expect, will be but the setting in of a tide, upon whose bosom will be borne along, activity to mercantile circles, and occupation to the thronging thousands of our labouring population. By a well known law of commerce, the value of all exchangeable commodities is dependant on the proportion which supply bears to demand. When an article is in the market to a greater amount than the market requires, the price immediately descends; and when to a less amount, the specific value of articles, by the same law, runs up. The flow of the seasons is not more certain, more settled, or more uniform, than these tides of the market. For some months past, money has set in upon with the force and steadiness of a stream. Our banks and bullion offices are full to repletion; so full, in fact, and so far beyond the ordinary demands of commerce, that its price has run down to such a point as to make it accessible to all who have any mercantile consideration to offer for it. No doubt it is satisfactory to the public to know, that such an accumulation of precious metals is safely housed in the cellars of the Bank of England, and other metropolitan banks of deposit. It will be regarded as a sheet-anglor wherewith the of deposit. It will be regarded as a sheet-auchor, wherewith the nation may ride out many a commercial gale—as an element giving multitude and keenness to the weapons of war, as well as more assured success to the arts and exercises of peace. This is more assured success to the arts and exercises of peace. This is also our views of its advantages: but is it not also a great power lying asleep with all its fertilising properties, unexercised, unproductive, unimproved—like lamps in sepulchres, emitting a faint radiance unenjoyed by the living or the dead? It ploughs no fields—it plants no vineyards—it steers no fleets to shores, washed by the farthest sea, bearing thither the wrought produce of these lands, and bringing back the raw produce of theirs—it is neither dew, nor rain, nor heat, nor any other influence quickening into activity the commerce of the earth—it is simply a metallic mound—an inert rain, nor heat, nor any other influence quickening into activity the commerce of the earth—it is simply a metallic mound—an inert accumulation. The transactions in mining property have, during the week now concluding, partaken of the general improvement. There has been more life in the market—shares taking an upward path, and the holders standing aloof from the importunaters to sell, in the expectation of still improving prices. We think the holders of mining shares in general are quite right; and that they will decidedly find their account, in keeping their commission to sell, for some weeks, at least, out of the pocket-book of the broker.

It will be seen, that the public funds have been somewhat heavy throughout the week; 3 per cent Consols have gone up faulteringly to 89, and then as faulteringly receded a few points lower; they appear to be, for the moment, entangled in a pous, which it cannot aurmount. It is understood, that they would long since have overalipped that point, but for an expectation, founded on what authority we know not, that Government will require a loan; there is little doubt but that Government, yielding to the almost universal wishes of the nation, will put the southern seaboard of the kingdom

wishes of the nation, will put the southern seaboard of the kingdom in a better state of defence. If the arming, en flute, of a score of ships of the line, and twice the number of 1000-horse power steamers, is a leading feature of their plan of defence, we do not doubt but that both Parliament and people will enthusiastically respond to the proposition. A few days will be sufficient to clicit the detailed intentions of her Majesty's Ministers, as to this and to other most involvent branches of the public services.

The question, whether the small remaining duty on foreign copper ores shall be retained or not, will now shortly be brought under

most important branches of the public service.

yet injurious duty, by a few large landed proprietors in the county, and the almost total apathy with which the question is viewed by the great body of wealthy adventurers who have absolutely fortunes invested in the copper mines of Cornwall, but who did not feel it worth their time to attend a meeting for such a purpose as that set forth. The majority of men of business in Cornwall, and outadventurers, know, that so far from the abolition of the duty being injurious to the general mining interests of the county, it would ultimately prove a blessing; and that the smallness of the remaining duty, hardly paying the cost of its collection, is, from its very diminintiveness, totally unprotective to Cornish mining and miners, while it sits a heavy incubus on the shoulders of commerce, causes a great depression in the employment of British freights, and paralyses industry, instead of protecting it. Mr. Trepper, in a communication addressed to the Royal Cornwall Gazette, accuses the Mining Journal with being "converted disciples to the very measure which for years it most bitterly denounced as ruinous to the British miner." We believe this gentleman to be most conscientious in his opposition to a repeal of the tax, and that he believes its continuance to be for the salvation of the mining industry of Cornwall; but we must be allowed to observe, that in the last few years a perfect revolution has gradually been taking place in our internal policy, our mode of taxation, and our commercial treaties with the four quarters of the globe; prohibitory duties have been repealed, tariffs revised and altered, a more free and unbounded exchange of production taking place with the whole civilised world: this, then, is not the time for the continuance of the trifling remains of a duty originally levied under totally different circumstances, but which is no longer tenable, and the repeal of which will but assimilate the industrial resources of Cornwall to every other staple produce of Great Britain, and revive and animate its indust figures, generally most egregiously erroneous, Mr. Francis merely shows, in a manner undeniable, the exact amount of duty on ores of various produce, and carries out his subject in unanswerable arguments. We also call our readers' attention to a communication in this day's columns, headed "Smelters v. Miners," and shall ourselves return to the subject on the earliest opportunity.

[FROM A CORRESPONDENT.]

The appointment of a deputation, to assist the county members in the elincidation of the subordinate class of particulars connected with the importation of foreign copper ores, may be an expedient not without its convenience and utility—in short, we see nothing whatever to complain, of either in the composition or the objects of the meeting of mining proprietors, recently held at Truro. It is true, that Sir Charles Lemon endeavoured to assign a reason for the fears entertained, that the free traders will this year move in Parliament for the remission of the remaining duties on foreign over To our minds, the reason so called, when looked into a little, is a deal like no reason at all. Sir Charles has seen, it appears, two memorials to Government for the cancelling of the existing duty. Wery true, but if the mining interest of Cornwall had been much alive to the importance of the measure of protection now enjoyed, two memorials, also from that county, would, by this time, have been in the hands of Government, praying the continuance of the tariff law as to foreign ores; but, had they been there, and their prayer was ever so urgent, or their reasons ever so plausible, the deduction from and a premising that the Protectionists would this wear bring was ever so bright, or their reasons ever so plausible, the deduction from such a premising, that the Protectionists would this year bring their case to the notice of Parliament, would be a conclusion altogether gratuitous and unauthorised. Of this reasoning, therefore, we do a little complain; because it misleads, or is calculated to mislead, the parties interested, as to the quarter in which the difficul-

lead, the parties interested, as to the quarter in which the difficulties of their case are likely to spring up.

Memorials, indeed, are often blown into the Government offices from all the winds of heaven; but the circumstance of their alighting on the windsows in Downing-street, is the flimsiest of all reasons for believing, that Parliament will ever see, or Government ever sanction, them. If this is a probable representation of the actual prospects of the case, then is the alarm founded on the presentation of these documents, in the fullest sense, premature; and the appointment of the deputation, as well as the expense of its maintenance, uncalled and superfluons. The time, however, as we have already said, is anything but favourable for the removal of these imposts; and if the members of the deputation, by their resources, as men of business, and their familiarity with details, can strengthen the hands of the county Members, as against the manufacturers, we shall, with the Protectionists, rejoice at their appointment. Let another harvest, with its golden treasure, roll in upon us, as the ocean on the shore—let the tide of trade fill up, and enrich once more its parched vest, with its golden treasure, roll in upon us, as the ocean on the shore—let the tide of trade fill up, and enrich once more its parched and hollow channels, before we venture to lower the resources of the public Exchequer, in the least, of the fountains at which it feeds. This, we have reason to be tolerably confident, is the purpose and determination of the Queen's Government. Resting on this conviction, we shall wait to see whether the carnestness and activity of those who have placed themselves at the poles of the argument, will be able, in either way, to alter the equilibrium now subsisting—whether, in fact, committees, or deputations, or even individual Members of Parliament, will be able to disturb, for one moment, the mind and march of her Majern's administration, with respect to this particular object.

The ample intelligence in this day's Journal, respecting the great progress of mining industry in the colony of South Australia, will prove well worthy attentive perusal: while, for a moment only, we wish to call the attention of our mining friends to the singule productiveness of the Burra Burra Mines, in South Australia. productiveness of the Burra Burra Mines, in South Australia. It appears that, in about 18 months, these mines have yielded the extraordinary amount of 9841 tons of rich copper ore—so rich, that its total value amounted to 150,000l. The original purchase money of the mines, together with the costs of working, from September, 1845, to March, 1847—the year and a half in question—is something under 75,000l., which has been wholly repaid to the shareholders, in two dividends, of 50 per cent. each; and the directors are about to declare another dividend of 100 per cent. We make no comment whatever on this extraordinary statement. We suppose it ment whatever on this extraordinary statement. We suppose it to be without a parallel in the whole history of mining successes. A large part of the ore has arrived at Swansea for smelting, an-We suppose it the consideration of the Legislature; and although of but small importance, either as affording any benefit to the miner, or as a matter of national revenue, being only about 50,000l per ann, it is made a stalking horse, by the supporters of this ideal protection in Cornwall, who are making the most strenuous exertions to give the Mombers of Parliament for Cornwall a sort of protectionist education, to enable them to act their parts with vigour before the schoolmaster in the House of Commons. In our last Number, we gave a full report of the meeting at Truro, held last week, to consider the policy of appointing a deputation to assist, by statistical information, and every means in their power, the county Members in their made and tempfing character of these results; for it is scarcely constraint of the meeting itself was by no means important, except as in showing the interest attributed to this merely nominal, PROGRESS OF FRENCH MINING INDUSTRY.

(vaou uva paris correspondent.) t becuformed, with a capital of 15,000%, in 800 sh or working the Mine de Schiste de Mouthier, in the department of the Doubs; said to present a superficial extent of 4 kilometres 89 hectares. The mine, it appears, was conceded by royal ordinance of the 8th of May last. The person to whom the concession was made is to have 6000l. of shares

i.e., half the capital for making it over to the company, of which he is

The person to whom the concession was made is to have 8000l. of sheres—i.e., half the capital for making it over to the company, of which ha is to be the managing director. The number of mines of "schiste," which were worked in all France in 1845, was only 11, and the total value of their products did not much exceed 30,000l.

The director of the Customs Department has issued a circular, dated the 3d, ordering that coke, like coal, shall be exempted from the necessity of being weighed when imported. Instead of the weighing, ressels, importing coke, are not to be visited, when they declare their contents to be at the rate of 1000 kilogrammes, or one French ton, per ton in the measurement of the vessel. This new measure is a very useful one, as it will save an immensity of trouble, both to importers and Custom-house officers.

The Navy Board has put forth amouncements of its intention to receive another batch of contracts. Among the articles specified are the following:—At Toulon, the 11th of March, 225 tons of cast-iron, of French manufacture, and 75 tons of English—the iron to be of the description, called by the French finte noise; same day, at the same port, 100 tons of lead, in pigs; same day, at Brest, 257 tons of copper; 29th of Feb., 3000 tons of cast-iron (grise), at Nevers.

A Royal ordinance, dated the 2d, allows zinc to be imported into France free of duty, to be rolled, provided it be destined for re-exportation. The effect of this measure will, undoubtedly, be to increase the already extensive imports from Belgium.

Though the Chamber has now been sitting several weeks, it has not yet got through the Chamber has now been sitting several weeks, it has not yet got through the Chamber has now been sitting several weeks, it has not yet got through the Chamber has now been sitting several weeks, it has not yet got through the Chamber has now been sitting several weeks, it has not yet got through the Chamber has now been sitting several weeks, it has not yet got through the Chamber has now been sitting se

have lately taken place on the Bourse, some of them being of a certain importance.

It is really surprising at times, to see the extaordinary ignorance which exists in this country, even among practical people, on subjects on which they ought to be peculiarly well informed. For example, a gentleman, writing on the coal question, in one of the principal journals of this city, coolly lays down, as an indisputable fact, that, even should the present consumption of native coal be doubled in France, the single basin of the Loire could supply it for upwards of a thousand years? Whereas, it clearly appears, from an able report on the Loire basin, by M. Migneron, one of the Government mining engineers, that in doubling the consumption, the Loire basin could only make the supply for a period of 44'years certain—probably for 58 years—possibly for 63. Other basins are not in such a favourable position as that of the Loire; it is, therefore, by no means improbable, that, supposing the consumption of coal to go on incessantly increasing, as it no doubt will do, and supposing no mexpected, unhoped-for discovery of new coal-fields to take place, many of the present generation may live to see France without any native coal at all!

At St. Dizier, on the 13th, iron, rocke, from wood, was 430 ft. to 440 fr.; the fers battus, from coal, for Paris, 340 fr.; and for the provinces, 350 fr.; iron laminé, 340 fr.; cast-iron (no transactions), 145 ft.

Paris, Wednesday.

Belgium.—The Belgian journals are beginning to sound the alarm, propos, of the importation of English coal into France, and of the articles and calculations which have appeared in the Mining Journal on the subject. The Belgique Industrielle is particularly energetic in warning the Belgian coalowners of the terrible competition with which England threatens them. It quotes largely from the Mining Journal, for the purpose of showing that English coal is greatly preferred in France to either Belgian or French, and now, that so many railways are open, there is no earthly reason why it should not make its way to Paris, and even drive the Belgian and French coal out of the departments of which they have hitherto held undisputed possession. According to your contemporary, things are looking very gloomy, indeed, for the Belgians; for it frankly admits, that British coal is better than theirs, and will, no doubt, sooner or later, drive theirs out of the market altogether. The Belgique Industrielle calls on the Belgian coalowners to "devise means for meeting the storm which is raging in their commercial horizon, by this competition of Great Britain." But it does not indicate what, in its opinion, those means ought to be; and it is not likely that, even should the coalowners meet in solemn conclave, they could concoct any. The truth is, that, provided the English can manage to sell their coal at something like the same price as the Belgians, nothing can prevent the latter from losing their ground.

The Vieille Montagne Company employs about 1500 workmen; and in 1846, it made use of 35,000 tons of coal, 36,500 tons of cast-iron, 40,000 tons of iron, and produced 9000 tons of zinc. In 1847, its con-Belgian coalowners of the terrible competition with which England

gians, nothing can prevent the latter from losing their ground.

The Vicille Montagne Company employs about 1500 workmen; and in 1846, it made use of 35,000 tons of coal, 36,500 tons of cast-iron, 40,000 tons of iron, and produced 9000 tons of zinc. In 1847, its consumption and production were much greater.

Some little time ago I mentioned, that Prussia had suddenly re-established a rather heavy duty on the importation of Belgian coal. Your readers may not be aware, but such, nevertheless, is the fact, that this measure is entirely to be ascribed to the development of metallurgic industry in Prussia. Three or four years ago, for example, Prussia employed all her efforts to obtain possession of Hofland, as a market for her exported coal; her production of coal being so great that she was obliged to seek foreign debouchés. To drive the Belgians out of the Dutch market, the Prussian Government spared no sacrifices—it even went so far as to give up navigation duties, rert of mines, &c., so as to enable the coal exporters to send their products to Holland on such favourable terms as should make the import duties into that kingdom not felt. The consequence of this was, that the Prussians undersold the Belgians; and as, besides, their coal was superior to the Belgians old the Belgians; and as, besides, their coal was superior to the Belgians, they nearly succeeded in driving the Belgians out of the Dutch market altogether. Subsequently, however, metallurgic establishments in the Rhenish provinces became establishments were able to obtain Belgian coal even cheaper than Prussian. Hence, the Prussians found themselves in, what the Yankees call, "a fix,"—their Dutch market having been abandoned, and the railways having cut them out of their own native market.

Representations of this deplorable state of affairs having been made to the Prussian Government, it determined, at least, to secure its own people their own Prussian market. And thus it was, that, to effect this object, it

the Prussian Government, it determined, at least, to secure its own people their own Prussian market. And thus it was, that, to effect this object, it re-established the duty on the import of Belgian coal, thereby compelling the metallurgic establishments of Prussia to use Prussian coal.

the metallurgic establishments of Prussia to use Prussian coal.

I have already informed you, in previous letters, that this measure of the Prussian Government was one of very great gravity, indeed, to the Belgian coal mines. To the Belgian railways, also, it has caused a serious loss, by depriving them of one of their most important branches of traffic.

In connection with this subject, it may not be out of place to mention that the Prussians have of late years given an extraordinary development to the working of their coal-pits. Not long since uo one would have believed that so much coal existed in all Prussia, as has actually been dug out of the bowels of the earth; and yet it is now a perfectly well-established fact, that the coal deposits of Prussia are extraordinarily great, and that, in all earthly probability, not a tithe of them has yet been discovered. The Prussians, moreover, seem to be perfectly alive to the importance of working their coal-pits; for no sooner is a discovery of a coal mine made, than a large amount of capital is immediately subscribed so work it. One of the principal coal basins of Prussia at present worked, is that of Essen, at seven leagues from the Rhine. Its coal is what the Belgians and French designate as gras of the first quality. This coal is sent to the Rhenish provinces, Frankfort, Holland, and even finds its way

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beyond the French frontier, to Strasburg for instance. Within the last two or three years an immense extension has been given to the working of this coal-field. The coal is sent by the Ruhr to the Rhime, and the facility of railway communication causes it to be extensively consumed. Another basin's that of Eischweilen, the production of which is not very considerable. Its coal is sent to the Rhenish provinces, and to the vicinity of Aix-la-Chapelle, but is not sufficient to supply the metallurgic establishments; the coal, however, is good. The principal basin is, that of Saarbruck—the coal of which is of excellent quality, especially for steam-vessels. It is not so well adapted for metallurgic works. Nevertheless, it is most extensively used in navigation and domestic purposes in all the country comprised between Mentz and Cologne. It even finds its way to France; and, as was stated in your Paris correspondence some time back, it is confidently expected, that the opening of the Strasburg Railway and its embranchments, and the formation of others, will lead to its being extensively used in France, and, in all probability to its being selected to supply the iron-works of the Hante Marne, which are the most numerous and important of all France.

The unfortunate Belgians, though terribly mortified at losing the French market—a prospect held out to them, as they fancy, by the Parisian correspondence of the Mining Journal. That market is, after all, the most important they possess, or are ever likely to possess. The figures forwarded to you last week, show that the exports of coal to France are truly immense; but, now that the Mining Journal has advised its countrymen to dispute it with the Beigians, they are in utter diamay, and their principal cry has become:—"Those cursued English are about to ruin those of our coal-fields which supply France!"

I ought to have observed, when speaking of the Prussian coal-fields, that many Englishmen have already advanced a considerable amount of capital in them; and I am given to beyond the French frontier, to Strasburg for instance. Within the last

onths shall have clapsed.

harcholders of the English and Belgian Company of the Mines of the Rhine, at Dusseldorf, are informed that the interest on the shares, up

The Prussian budget contains an item of receipts from mines, ironworks, salt works, and porcelain manufactories, belonging to the State, of

In Bohemia, it is stated that there are 50 furnaces in operation, which In Bohemia, it is stated that there are 50 furnaces in operation, which yield 470,000 German quintals of cast-iron, of the value of about 2,000,000 thalers. This is much less than the production of the provinces of Silesia, the Rhine, and Westphalia. The iron-works of the Prince de Diefrichstein, in Southern Bohemia, are the most important, and are managed on the most enlightened principles.

A meeting of the shareholders of the coal-pits of Bonnet et Veine à Mouches sous Quarengon, is called for the 12th of March.

STATE OF THE IRON TRADE—COLLIERS' STRIKE.—The iron trade, we are sorry to find, still remains in a very spiritless state; and the misguided col liers, in many of the districts of South Staffordshire, prefer idling about, starvserry to find, still remains in a very spiritless state; and the misguided colliers, in many of the districts of South Staffordshire, prefer idling about, starving themselves and families, than submit to a trifling reduction of wages, to which steps their employers have been compelled to resort from the great fall in the market price of iron; notwithstanding, from the present low price of provisions, the offered wages are equal to double what the men generally received four or five years since. The ironmasters, as a body, are determined not to yield, and the men at present exhibit the same determination, but they must be severe sufferers in the sequel. Indeed, few of the large houses feel the least anxiety about resuming their works until brisker times; for, were the men at once all to yield, the demand is so extremely limited, that they would not be half employed. The failure of Messrs. Jevons, Sons, and Co., of Liverpool, is said to have shaken two or three houses in South Staffordshire very seriously. We give the following remarks on the subject from a local paper:—
"The British Iron Company's men have now been out of work since Christmas. The rate of wages being quite out of proportion to the profits of trade, the company were compelled to give notice to their workpeople of a proportionate reduction of wages. Their earnings are now about double what they were five years ago, while the prices of provisions are moderate. Under these circumstances, themen can afford to submit to the terms offered. They certainly cannot expect the sympathy and support of the public, in this struggle against their employers, when it is known that they can earn from 3s. to 5s. a day, and many 6s., if they were so disposed. We hear that the coalmasters in the Ruabon district, finding no advantage in working at present prices, have resolved to give notice of a general reduction of wages, to take effect in the course of next week. The Brymbo Company have already done so, and the men have met the reduction in a proper spirit. We trus

COAL IN CHILL—We have, on various occasions, alladed to the mineral resources of Chili, which stand pre-eminent among the republics of South America. Lately, several extensive coal-fields have been discovered between Valparaise and Santiago, but one in particular, belonging to an English firm, a short distance from the port of Valparaise, as likely to prove a most valuable speculation, as it is being worked, and the coal equal to that of Newcastle, which can be delivered at the rate of 4s. per ton, whilst but a short time ago none could be obtained at a less price than 2l. to 2l. 10s. Several miners have arrived out there from the north of England and from Australia, at high wages; and as the parties who have got the property and concessions, are chiefly British, and strongly patronised by the Government, there is little doubt that these seams will be worked on a large scale, as native labourers (peones) may be obtained at a very low rate. To the progress of steam navigation in the Pacific, the facility of obtaining coal in Chili will be a most important advantage; but to mining adventurers it will be the means of greatly developing her mineral resources, by the establishing of steam-engines, furnaces, and smelting-houses, on the spot, instead of sending the ore to Europe to be reduced; roads are being cut in every direction, and water conveyance will be easy of access in the interior.

BITUMINOUS COAL IN ARRECCA.—It is said that a large deposit of bitu into soal has been discovered at Burlington, Lawrence county, Ohio, which romises an abundant supply—equal, if not superior, to the Pittsburgh of comercy coal—and is a great addition to the vast resources of that state.

COAL MINING IN NEW SOUTH WALES.—The papers last received from the colony, to the 11th September, contain one highly gratifying piece of intelligence—that the monopoly in the working of coal had been abolished. On Tuesday, the 17th August, a message from the governor was sent to the Legislative Council, to the effect that, perceiving they had appointed a committee to investigate the privileges granted to the Australian Agricultural Company on their undertaking to work coal at Newcastle, his excellency desired to inform them, that an arrangement had been made by the directors of the company with the Secretary of State for the Colonies, by which all privileges, both on the part of the company and the Government, were to be given up, without entailing any charge on the colonial funds. The announcement was received with considerable cheering.

METALLURGICAL INDUSTRY OF BOHESHA.—It appears, by a paragraph in the Prussian Gazette, that metallurgical industry has, within the last few years, made considerable progress in Bohemia. Although at present there are not more than 50 establishments in operation, these have produced 470,000 quintals of metal in the course of one year, valued at 2,000,000 thalers (280,0002). This quantity, it is stated, is very little below the entire production of the production of the provinces of Silesia, the Rhine, and Westphalia, where strenuous endeavours have been made to push this branch of business. The mineral resources of Bohemia are described to be most extensive; and, according to the statement quoted, have scarcely yet been properly developed.

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THE EXPLOSION OF THE "CRICKET."—In the House of Commons, last night, Mr. Muntz asked the right hon. Baronet, the Secretary for the Home Department, whether, in consequence of the explosion of the Cricket, it was the intention of Government to take any steps in respect of the valves of steamers plying on the Thames?—Mr. Labouchere said, perhaps the hon. Member was not aware that Government already had control over these boats. All vessels that carried passengers were required to undergo an examination by an officer appointed for that purpose by the Board of Trade.

The "CRICKET" STEAN-BOAT EXPLOSION—REDGERAVE & SMITH.—This was an inquiry in the Sheriffs Court (before Mr. Under Sheriff Burchell), to assess damages, for injuries sustained by the plaintiff (who sued by his father, as next friend), occasioned by the bursting of the boiler of the Cricket on the Thames, on the 27th of August last. The defendant had suffered judgment to go by default, and evidence having been given, to show that the valves had been tied down; that Smith had been warned of the dangers which existed from this practice, his refusal to interfere; and from the medical man, who stated it was probable the youth was injured for life, the jury found a verdict for the plaintiff—damages 2001. Two other actions by the parents were rettled by consent for 501. each.

Original Correspondence.

PROFESSOR ANSTED ON THE SILVER MINES OF THE BLACK FOREST IN GERMANY.

SIR,-A remark which I perceive in your report of one of my friend Mr Hunt's admirable lectures, at the London Institution, induces me to take Hunt's admirable lectures, at the London Institution, induces me to take this opportunity of duing what I have long intended—I mean offering some remarks on the more scientific and generally interesting facts and views made known to me in the course of my professional eccapations connected with mines. It frequently happens that, without the smallest breach of confidence, very useful general information may be communicated by the observant mine surveyor; and my position having often led me to foreign mining districts, this information is the more likely to be new to most of your readers. The remark I allude to is, that "silver is never found alone in quantities sufficient to be sought by independent mining operations." This, atthough in most cases true, is partly contradicted in the case of some mines which have lately come under my examination, and which present highly interesting peculiarities. The mines to which I allude are some of those belonging to the "Kinzighal Mining Association," which has been in operation about eight or ten months. The association has the right of mining over an extensive district on the right bank of the allude are some of those belonging to the "artificial maning association has the right of mining over an extensive district on the right bank of the Rhine, in the Black Forest, nearly opposite the city of Strasburg, and not far from the mining district of the Voges Mountains, in France—I mention the latter as affording something like similar geological conditions in many respects. The valley of the Kinzig, and the little side valleys opening into it, have been long known and worked for the following metals:—silver, cobalt, bismuth, attimony, lead (argentiferous galena), and copper. A very large number of small mines have been opened in former times with various saccess; but scarcely anything has been done on a large scale in the present century, till the mining rights came into the hands of the English company already alluded to. I have been employed by this company to examine the works and saggest plans of working, and have thus had an opportunity of investigating the main facts of the district with regard to the mines. In the present communication, however, I do not propose to allude to the ores of any metal but silver, with respect to which I do not hesitate to say, that one portion of the district is almost more remarkable than any other known locality. The country, or prevailing rock, in this district, is granite—forming a multitude of pyramidal masses rather than hills, and intersected by numerous valleys, through which streams make their way. Gneiss also exists in the district, and appears to be stratified with the granite. The whole is occasionally covered with red sandstone, which the metalliferous lodes do not traverse. The lodes are of two main directions, with occasional contras—the silver, cobalt, and antimony, being in north and south lodes on the southern and eastern parts of the district; and the lead and copper both occurring in east and west lodes, and often together. The veinstone is almost invariably heavy spar. Throughout the district, as far as is yet known, the ores are chiefly distribute ment. As far as can be told from the general character of the richer and larger pockets now worked out, these do not appear to have ever offered inducements for deep sinkings; and there seems to be a good deal of superstition and local prejudice on the subject of mining operations on

perstition and local prejudice on the subject of mining operations on a large scale.

After this somewhat long preface, which, however, was necessary to elucidate the matter, I now turn to the so-called Silberberg, or silver mountain, of Wittichen—the chief object of my present letter. This hill covers an area of about one-third of a square mile; and there is a kind of ridge forming the highest part, running north-east and south-west, or nearly so. Several lodes and branches cross this hill, bearing north and south; and some of them, two more especially, have proved singularly rich in native silver in places where the lode has expanded into pockets, nearly under the ridge of the hill. In one or two places here, I noticed heaves, but not of great extent; and there is no evidence of their effect on the richness of the lode.

of great extent; and there is no evidence of their effect on the richness of the lode.

Large excavations mark the interest felt by the old people in these spots; and the hardness of the granite has been no obstacle to the operations having been carried on as long as there seemed a chance of success. Some time ago, a company, working very languidly in this hill, managed, however, to hit upon what appears to be a branch, parallel to one of those main lodes which has so greatly expanded; and in this branch, at a similar spot, under the ridge, ore was again met with. Soon afterwards, and without any very great value being attributed to the discovery, the local company was bought up by the English company, and it devolved upon me to examine the workings at the spot. It soon appeared that the quantity of ore that had been raised at the place in question, although comparatively small in quantity, was of very unusual richness and value. It was regarded as partly silver, and partly cobalt; but is, in fact, almost entirely silver ore. The branch, like the lode, is irregular; its thickness, when metalliferous, small, varying from 4 to 6 or 8 in.—the veinstone, as usual, sulphate of barytes; and the ore, chiefly native silver, in crystals, snags, and disseminated; sulphuret of silver, carbonate of silver (?), together with similar ores mixed with cobalt, arsenic, nickel, and some other substances, are also found in small quantity.

The ore is not, however, by any means confined to the lode. Native silver is widely and extensively are mich tear abundantly, disseminated in the

The ore is not, however, by any means confined to the lode. Native silver The ore is not, however, by any means confined to the lode. Native silver is widely and extensively—one might say, abundantly—disseminated in the neighbouring granite to some distance; and thus there is difficulty in learning what practical limit must be set to the bringing out of the mine the rubbish formed by blasting. The richness of these ores is almost beyond belief. Of some lew hundred-weights forwarded to England, two samples, assayed by Messrs. Johnson, yielded respectively 2360 and 5870 ozs. of silver to the ton; and specimens, roughly knocked out of a single lump, afforded, by careful picking, 6 lbs. of native silver, whose yield, when assayed, was 91-7 per cent. of silver—say 91 per cent. of fine silver. The other ores, when carefully picked, yield 14 per cent. of silver; and of such ores several hundred weights were raised by two men, the whole number employed at that time in the mine, in the course of a very few months. I think I am justified in saying, that lodes yielding thus, are amongst the most remarkable—if not the most remarkable for silver—that have ever been described. Ores are still being raised; and there is every probability that, for months to come, this small pocket will continue to yield ores of this kind—and this is one of the comparatively minute expansions occurring in a branch! this is one of the comparatively minute expansions occurring in a branch!
There are many points bearing on the practical working of mines suggested by the peculiarities of this district; and these I may, perhaps, speak of in a future communication, should you think this worthy of a place in your columns.

D. T. Ansted, Consulting Mining Engineer.

Gloucester-10ad, Hyde-park, Feb. 7.

MINING IN THE ISLE OF MAN.

MINING IN THE ISLE OF MAN.

Sire,—The mines worked by the Isle of Man Mining Company were undertaken, about 25 years ago, by Mr. Knott, a spirited and worthy miner, under a lease from the Crown, at 1/2th royalty, and ware afterwards divided into 14 shares—not having more than six or seven adventurers, all theoretical, business, and scientific men, who, with but few exceptions, have continued working the mines for the period above named, during which the returns in lead and silver may be estimated at 400,000. paying the Crown, whose mineral rights it is, 40,000. and the adventurers about 50,000. profit; paying in the island for labour, 250,000.; to merchants and others in the island, 50,000. and for materials, machinery, &c., from Liverpool and other places, 10,000. The amount paid from these mines has been the soul and existence of that part of the island; and it is to be hoped, that the next 20 or 30 years may be equally beneficial to the country and to the adventurers; and, if my informant is correct, it will, in future, be doubly so to the lord, or the Crown. As I understood it, on application to the Crown for a renewal of the lease, the agents for the Crown land made a condition, that a great part of the ground held in lease by the present company should be given up, which, according to my notion of the extent, must embrace nearly 100 square miles, or 64,000 acres.

That the extent of such a lease, 30 years ago, with parties ignorant of its mineral wealth, might, or might not, have been judicious, I am not disposed to say more about at present; but merely may state, that I commend the Crown agents, in their present proposition, to divide this extent into several parts, and at considerably reduced royalty, giving other companies an opportunity of making trials, in other parts of the island. Although many parts may be worked, and much capital swallowed up in ground, that a practical and stientific miner would prenounce as unworthy of capital and trial, still it will give mining companies a fair chance of spec

turers; and in this way its mineral sources will be fully developed. I am an advocate for a liberal extent of ground in all grants; still, in this instance, there is ground for several companies. It should be here observed, that every company should have such given as would be fair to compel it to make trials; and all such ground as might appear likely any company might drain by its machinery, should be a part of its grant, and proper clauses for its fair and effectual working should be agreed to; but that a company, at taking a lease, should be empelled to deposit any given sum exceeding that necessary for a fair trial, which should be named by the lessor's agent, appears preposterous—and that only paid as it might be required to carry out work, which should be specified between lessor and lessee. Leases, generally speaking, in this respect are loosely drawn; and it would be next to impossible to provide clauses in the lease to meet all emergencies—therefore, a deviation in them should only be made according to circumstances, and by the full concurrence of the lerd's agent, who, it is equally necessary, should be a miner and scientific man, as much so as the mine manager. I have scarcely met in my travels a mining district out of Cornwall where there is not the strongest proofs of the want of good understanding between lessee and lessor—principally arising from the want of proper knowledge of mining in lord's agents, or in the lords themselves—the lords and their agents fancying their interest to be best studied, by putting on the screw, and taking the greatest amount of told, or royalty, from the lessee. Never could there be greater injustice done to themselves, or a greater mistake made than this. Cardiganshire, Flintshire, and Denbighshire, groan under such errors: the true spirit of mining, with its capital, being, in a great measure, withdrawn from the two latter counties—whilst it only exists in the former from a lucky hit or two—i.e., Lisburne and Goginan Mines; whilst ten times the number of miners mig inners might be employed in each county, provided fairness, and a proper understanding between lord and adventurer, could be restored, which, I much fear, will never be done till scientific miners be employed by lords as their agents for mining, or some Act of Parliament be passed, appointing a commission to regulate such metters. But to the point. The Isle of Man, containing about 300 square miles, has all the rocks and stratification found in the best mining district of the kingdom—granite, elayslate, channels of slate, elvans, ironstone, porphyry, trap and ether rocks, annecessary here to describe, with cast and west lodes, cross-courses, slides, &c., in places strongly mineralised; taken altogether, giving great facility to the deposits of such minerals into the veins as the country contain. The great run of lodes is on the north side of the granite, and close to it, raming from east to west, and partially worked on, for nearly four miles in length. On the cross and oblique veins, running from the granite northward through them, the mines yielding the returns before made are the following:—Beckwith's, to the west, has been worked 100 fms. deep; and, in the upper parts of the mine, 200 fms. in length, and 130 fms. deep; and, in the upper parts of the mine, 200 fms. in length, and 130 fms. deep; this has been a rich mine. Crosse's Mine, about a mile to the east, has been worked 60 fms. deep, and 100 fms. long, and 30 fms. deep. These are the mines from which all the profitable returns shave been worked 100 fms. in length, and 70 fms. deep. These are the mines from which all the profitable returns shave been made. The ground still unexplored, between each mire, holds out great promise; and with the royalty, as now fixed, of \(\frac{1}{16}\), fitting, about the best part of the lodes may be considered, by some, as taken away, still there can be little doubt, if any, of the Crown receiving doubte the royalty in the next 25 years, that has been paid in a similar past period. The Laxey Mining Company, on the junc

THE COPPER TRADE.

SIR, Believing that many of your leading men in Cornwall labour nder a great misconception, as to the cause of the terrible depression under which our copper mines are suffering, I have been induced this week to address a letter to Sir Charles Lemon, with the view of calling the attention of the mining interest generally to the evil which really afflicts us, and the remedy which I propose for it. I do not doubt but that many parts of the letter in question would be interesting to a large portion of the readers of the Mining Journal, and I shall accordingly feel obliged by your giving it insertion in that paper, together with any remarks which you may conceive the subject demands. It would be most important to impress upon the attention of the wealthy portion of the shareholders in the home and foreign mines, the necessity of uniting their strength, in order to accomplish the object set forth in my letter; and, as an opportunity such as the present for going into the copper trade is not likely again to offer, immediate action should be strongly urged. The retirement of the English Copper Company from the copper trade, within a very short period, will, in all probability, place a most complete and amplepremises at the command of any new company, on terms exceedingly advantageous. I offer these remarks for your consideration, feeling assured the whole subject, in your hands, will be done full justice to.

White Hall, Truro, Feb. 5.

THE COPPER TRADE. under which our copper mines are suffering, I have been induced this week

White Hall, Truro, Feb. 5.

THE COPPER TRADE.
TO SHE GLABLES LEMON, BART, M.P.
SIR,—If an apology for this letter be necessary. I am prepared with one, which, I beneate, will be deemed ample by a very considerable number of the copper mines of the county. It will be found in the fact, that such ensures as are at all likely to benefit the copper mines, were in no way referred the meeting held at Trurs, our be list the copper mines, were in no way referred in the meeting held at Trurs, our be list the arrivable that you and our other representatives in Parliament should be in possession of, is not likely to reach you through the deputation then appointed. I am, a athorship of a communication of this kind, as I well know there are among the copper miners those who are in all respects better qualified to discharge this important duty. I have the best reason to know, from a tolerably considerably of a communication of the kind, as I well to discharge this important duty have the set reason to know, from a tolerably can as well as those of the nois lord who presided over the meeting at Trure, and of many as well as those of the nois lord who presided over the meeting at Trure, and of many colless who have on different occasions advocated the cause of protection to our mines, others who can be appropriately of making that a change the have this conceptuality of making the factories.

towns intercourse with the smarts throughout cornwall, this your enters in particular, as well as those of the noble lord who presided over the meeting at True, and of many others who have on different occasions advocated the cause of protection to our mines, are fully appreciated, and I am glad to have this opportunity of making that zeknowledgment on their behalf.

The course of events which has marked the progress of the copper trade in this country for many years past, has been narrowly watched, and a conviction has been rapidly gaining ground in men's minds, that the causes of those fluctuations, both in the price obtained for the ores by the miners, and for the metal by the smelters, have been left untouched in all the arguments which have been employed by those who contend for protection on the one side, and those who are opposed to it, on the other. No metal purpose would be answered by my doing more now than to endeavour to place the copper question before you, in its shortest and most simple form; I will, therefore, adopt the discussion, put forth by most of the gentlemen who spide at the meeting on the 21st uit, and refrain from considering the question in its free trade bearing, though I confess myself at a loss to discover how the discussion of it, either in Parliament or with the Ministers, is to avoid all reference to the great principle upon which the earlier trade of the country at present hinges.

You must, as I conceive, be prepared to show that the protection should be independent of the country, is such as to justify the Government in making a special exception in favour of this particular measure; and in order to do this, it folious that you must be prepared with proof of the injury which would be indicated of the copper mines by the pressort seale of duties an the foreign over imported into this country, is such as to justify they then that the protection, so called, which we derive from the imposition of the duties in question, is a deliation, and I fast a snare.

The official returns of

*** containing more than 15, and not more than 20, per cent.—
**** 1,056 ***** £4,989 ****** 17} ****** 16s. 6d. 21,943 6,518 £41,066 30 37s. 5d.

might easily adduce other facts in support of this position, by comparing the trade as it is now carried on, with the manner in which it was done some years ago, but this is not necessary at present.

I wish to be distinctly understood, in contending for the employment of a greater amount of capital in the copper trade, that I do not imply any want of means on the part of the present smelters, as we very well know that it would be difficult to set limits to the capital which some of them might command; but when we consider that a trade involving, in 1846, the enormous sum of 1,731,755. for the purchase of the ores alone, is now nearly all in the hands of five companies, and that upwards of one-quarter of that amount has to be farmished by one of them, it may be well imagined that the parters as satisfied with the interest they already hold in this business. Having, as I conceive, shown that it is only by an additional amount of money being invested in the smelting of our ores, that we can either be helped out of our present difficulties, or be saved from others for the future, I must leave to others to devise the means by which such capital is to be obtained. I may, however, be permitted to suggest, that those who are the most deeply interested in the working of the copper mines in this country, and elsewhere, should be prepared to assist themselves; and the only way in which they can do this effectually, we improve the constant of the copper more every obstacle that may be opposed to them. It is generally supposed that 500,000. would ultimately be required for that purpose; but I have grounds for believing that one-half that sum, if judiciously managed, and especially if invested in the present state of the copper ore market, would be productive of great benefit to the miner, and a handsome profit on the outlay.

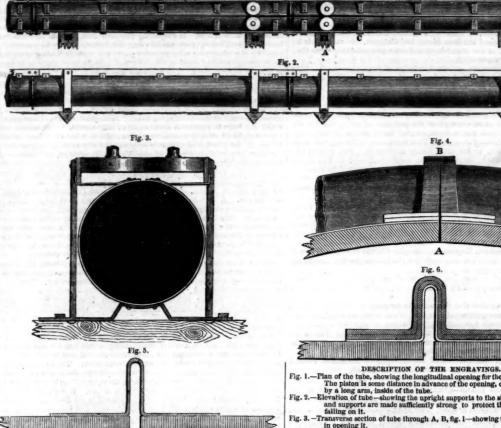
Surely there must be among all the parties interested in copper mining, and bringing by their exertions upwards of 170,000. worth of produce annually to market, men who can, without difficulty, comman

coppr smelting company." I am, Sir Charles, your most obedient servant.

Whitehall, Truro, Feb. 2, 1845.

RAILWAY STOCK.

Sir.,—In your Journal of the 29th Jan., I see a proposition made to the Government, by one of your correspondents, as to the propriety of creating railway stock; and in your paper of last Saturday, I observe you quote the remarks of Mr. M. Patterson, of Glasgow, on the same subject. It is very clear, we require a greater amount of the circulating medium than we at present possess, to carry on the overgrown business of this country—without which we must transport one-half of the whole population to other countries. The Government of any country represents the head of a great family; and, as a parent watches over the comfort and happiness of his children, so ought a Government to provide and watch over the whole. Many will say, "let private interests alone"—so do I; but I also say, encourage those interests, and, when difficulties occur, assist them to get out of them. The failure of our crops, which invariably brings misery and want, is surely well worth the attention of the Legislature, particularly when we consider the very great number of acres of Crown lands the country possesses, and which might be turned to very profitable account. The money that has been uselessly spent in Ireland, would have put into a high state of cultivation, thousands of acres of the Crown lands of that country; the great army employed there could have worked in conjunction with the inhabitants of the country, under the control of their officers, and much good might have been effected in this way: one good example is worth 20,000 lectures. Again, the Government might have conjunction with the inhabitants of the country, under the control of their officers, and much good might have been effected in this way: one good example is worth 20,000 lectures. Again, the Government might have lent sams to the landowners to improve their estates, under their own direction, or that of engineers appointed by them; the payment and interest of the capital advanced could have been secured by mortgage of the land, which would have stimulated the landowners to improvements. There could also have been no risk whatever in advancing money to the railway companies, to have enabled them to progress, in conjunction with the other improvements; and, by degrees, the whole country would have settled down in peace and quietness, and ultimately the gain to this country would have been great, instead of being continually an incubus around our necks. I cannot say how the enormous staff raised, to carry on railway works, was conducted; but I am well aware, many went there to perform the duties of engineers and surveyors, who were not competent either to use a chain or a theodolite; I can, therefore, imagine how the work must have been set out. If, therefore, the Government had begun with the Crown lands first, and proved what could be done, they would have set an example, that would have done more good than 20,000 bayonets. During the progress of the Ordnance Survey of Ireland, which lasted so many years, we do not find the people interrupting the mon employed on that duty, although they were scattered over the face of the country, and removed, in many cases, miles from each other; and I do think, had the plans now proposed been carried out, we should have felt the benefit of them before this; and why CLARKE AND VARLEY'S ELASTIC TUBE ATMOSPHERIC RAILWAY.



not begin now? We have an immense number of able-bodied men receiving pensions from the country—why not employ them on such duties, making them, at the same time, constables, to preserve the peace? Some of the most efficient men in the metropolitan and other police corps have been in the army, and receive both pension and pay. I have no objection to pay them extra, as I certainly think that men who have served in the Artillery, and Sappers and Miners, could be usefully and profitably employed on the Crown lands of either Ireland or England. Where did the Roman people find money and men to execute the works they did in this country, the very ruins and remnants of which are patterns to the engineers of the present day?—in fact, it is the very spirit the Romans possessed, that appears now to be urging us on to vie with them. We must, however, take very different means to what we are doing at present, before we can equal them; let the Government, therefore, take steps to establish, and keep good, the credit of the country, and we shall progress, and keep the lead of all the nations of the earth. We talk of raising soldiers to protect us—I would say, raise the condition of your labourers, by feeding and clothing them first, so that they would have strength to combat with an enemy, should he appear, which I think is not very likely.

Abergavenny, Feb. 9.

A Wellewisher to His Country. not begin now? We have an immense number of able-bodied men

COCHRANE'S CURVILINEAR SAW-MILL

SIR,—In your last publication you state, that "On Tuesday, the Lords of the Admiralty paid a visit to the naval establishment at Woolwich, in order to inspect the new saw-mills, just completed by Mr. Rolt, the contractor;" and that "their lordships appeared to be highly delighted with the perfection of the machinery, and the excellent quality of its work." Allow me to inform you that the saw-mill, alluded to above, was made at the Rhydymwyn Foundry, near Mold, Flintshire, and not by Mr. Rolt. You also allude to "another mill for cutting crooked timber with the grain." This mill was probably made by Mr. Rolt, and this may have led to his name being given as the contractor for the whole.

Mold, Feb. 9. THE HYDRAULIC TELEGRAPH.

Mold, Feb. 9.

THE HYDRAULIC TELEGRAPH.

Sir,—In your last week's Number appears a letter from your excellent correspondent, Dr. Murray, of Hull, which intimates doubts respecting the capacity of water, as a medium by which communications may be transmitted from one place to another, through the power of the "hydraulic apparatus," patented by Mr. Jowett, and now being exhited at the offices, Wollington-street, Strand. The incapability of this fluid, Dr. Murray insists, is dependent upon its known elasticity and compressibility—the result of tests made by professors, both in England and France. Now, admitting these experiments to be correct, and that water is, indeed, both elastic and compressible, Dr. Murray will not deny, that the amount of compression is as a mere fraction, compared to the immensity of compressive power required to produce the effect. Had Dr. Murray previously seen the very ingenious and simple apparatus at the patentee's office, and witnessed the easo and efficiency of its workings, I feel satisfied he would have abstained from opinions, calculated to prejudice the public mind, and impede the progress of science by restraint. To remove, if possible, the erroneous impressions Dr. Murray entertains, through ignorance of the principles of Mr. Jowett's instrument, I will briefly outline its pretensions. The constitution of water is such, as to require trifling force to propel, or displace it, let its confines be what they may. Being composed of globules, pressing each other equally at a point, and held together by attraction, it is possessed of an inherent power of self-propelling action, submissive to the smallest degree of impulse. A tube, of indefinite length, and perfectly air-tight, is filled with this fluid, and confined by a piston at this end of the tube being acted upon by a trifling leverage pressure, and meeting no other obstruction than an equal pressure of the piston at the other end, a consequent instantaneous communication is effected, and indices are at the same moment pointed to THE HYDRAULIC TELEGRAPH.

PATENT HYDRAULIC TELEGRAPH.

Sir,—I am directed by the committee of management, in behalf of the SIR,—I am directed by the committee of management, in behalf of the patentee, to address you respecting a notice to correspondents, in the Mining Journal of Saturday last, addressed to "S.," Moorgate. Mr. Whishaw, Sir, is not connected with this establishment in any shape whatsoever; nor am I aware that any claim on the part of that gentleman could have authorised such a statement. With regard to any priority in the invention of an "hydraulic telegraph," by Mr. Whishaw, the patentee does not contest—the principle being known to every scientific man centuries back: he merely cleims the application in the various instruments used by him for the purposes of hydraulic communication. You will have the goodness to insert this letter in your next Saturday's Journal, so that the croneous impression, as far as Mr. Wishaw and the patentee of this telegraph is concerned, may be removed. H. A. JOWETT, Sec., pro tem. Wellington-street North, Strand, Feb. 11.

EXCHEQUEE BILLS.—The total amount of Exchequer bills authorised to be alsed and to be provided for in the present year, is 17,946,500%.

Fig. 2.—Elevation of tube—showing the upright supports to the side rails. The side rails and supports are made sufficiently strong to protect the tube from any thing failing on it.

Fig. 3.—Transverse section of tube through A, B, fig. 1—showing the action of the rollers in constant.

Fig. 3.—Transverse section of tope through A, B, ng. 1—snowing the action of the top art of the metal, corrugated band—showing the ends made thicker, where they meet at the longitudinal slot.

Fig. 5.—Section of band through C, D, fig. 4—showing the shape of the corrugation.

Fig. 6.—Section of band through A, B, fig. 4—showing the thickness of the band where it meets at the longitudinal slot. The diagrams represent the band full size.

Fig. 6.—Section of base parts of the metal, corrugated casas—snowing the casas assume the incher, where they meet at the iongitudinal sol.

Fig. 6.—Section of and through C.D. fig. 4.—showing the chaps of the corrugation.

Fig. 6.—Section of and through C.D. fig. 1.—showing the chaps of the corrugation.

The patentees and proprietors of this principle, which has now been so long exemplified, in a full-size working model, at the Poplar station of the Blackwall Railway, having thoroughly matured the aystem, and, as we find by advertisement in another column, being prepared to treat with railway companies, we again call attention to the details of its progress and working—first, briefly premising, that whatever obstacles and failures may have hitherto occurred, in attempting to carry out the pneumatic principles of propulsion, they have arisen from the complexity and imperfection of the machinery employed in opening and shutting the longitudinal valve, the great amount of leakage at the valve and air-pumps, the power required to produce the exhaustion, and the loss from friction, and other causes. These failures have chiefly been attributable to imperfect construction of the apparatus, and the principle on which such construction is founded; but we think the patients have completely surmounted every obstacle which the supporters of the principle have had to contend with, and removed every objection that has been urged against it by its most strenuous opponents. Even admitting the serious impediments which the proper working of the tube, with a longitudinal removed and the consequence of the variable rate of exhaustion, and the great uncertainty of the arrival of the trains at the different stations along the lines. We shall now proceed to show, that this invention, with the leafst verought-iron tube, is the simplest method that can be devised for connecting the piston with the train, since no lubrication is required—the coulter, or connecting plate, passing along the longitudinal groove, or slit, without any sensi

haustion to any required degree by means of the air-pump. With respect to
the various details of working an atmospheric railway on this system, we would
just observe, that the patentees have devoted their sole attention for the last
three years to bring it as near perfection as possible; and that they state they
are prepared with simple and most effective plans for stopping at stations,
passing at sidings, and other movements, which have hitherto proved to be
difficulties, and with such facility, that they would undertake to work a line
four miles in length—such, for instance, as the London and Blackwall Railway—with trains each way, passing every 15 minutes, with the greatest regularity, and that, too, with a single line of tube.

Having thus given a complete description of the working of the elastic tabe
atmospheric railway, we would draw attention to many advantages which are
stated to exist in the pneumatic principle itself, on which we believe but little
thought has been bestowed. On lines, where the traffic is moderate, the stationary engines, during the time they are not required for forming the vacuum
might be employed in grinding corn, pumping water for irrigating or draining
lands, sawing timber or stone, and a variety of other useful and profitable mechanical or agricultaral operations—while the possession of great power at intervals through a line of country connected by a railway, would enable a company, by judicious management, to let off a large portion of the power with
great advantages; and the tubes being so light, they can be transported froplace to place with the greatest facility—while the inclines which can be overcome, renders the first construction of a railway, as compared with the locomotive
system, most particularly economical, by avoiding a vast deal of cutting and
embankment. The parties interested invite the engineering and scientific

ton the wind the state of the s

sale. A whom is on South whom is on South with you how tremity-mine," a cial surrecants and the 20,00 further a large as the strange rallellog the northed; but

talent of this and other countries to inspect the fall-sized experimental line, which is at work daily, from one till four. The most scrutinising and searching investigation is desired, the patentees being convinced that the problem of the practicability of railway traction on the atmospheric principle is solved—this opinion being borne out by many hundreds of talented individuals, who have minutely inspected the working during the past two months. The system may now be considered complete: it is, in every point of view, a perfect metallic railregy, no decaying substance, such as leather or caoutchoue, being employed in its construction, or any description of lubricating matter required. It has been working through summer's heat and winter's frost and snow; and we can affirm, from our own personal inspection, that the tube is in a better working state than at first.

From numerous experiments, taken with the utmost care, on many different occasions, and in all states of the atmosphere, the leakage is found uniform, and upon the average 1 in. of the mercurial gauge falls in 5 minutes, when the pumps are allowed to remain at rest.

We understand the patentees are about to introduce a novel mode of "suspension railway." in connection with the tube, highly suitable for carrying goods in general, for mineral districts, or for feeders to trunk lines from small populated districts, a description of which we shall give in a future Number.

MINING IN SOUTH AUSTRALIA. X

The Burra Burra Copper Mine continues to be the all-absorbing subject of interest: every stranger who comes to the colony goes to see it, and returns perfectly amazed at the riches displayed. You will, of course, have received. and published before now, the second annual report of this mine, dated April 21. I enelsee another, in case it has not yet come to hand. You may rely on the correctness of the statements. There are, at present, at the mines, 8500 tons of dressed ore; a very large proportion of which of very high per centage: the quantity in view would puzzle the cleverest miner to estimate. Look where you will, in any of the levels or shafts, rich grey copper, and malachite, stare you in the face. The rainy season has this year been much heavier than any since the establishment of the colony; every bridge in the colony has lately been swept away, and the state of the roads will not allow of any cartage to be done just now. How long will it be before the British capitalists will open their eyes to the importance of the mineral discoveries in South Australia? Here we have one mine, as you will perceive by the report, spend ing 21,000L on cartage in 18 months, over a perfectly flat country, all the way from the port to Burra, 100 miles! With British capital, an iron railway for horses, would soon connect every mine in the colony with the shipping port

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harses, would soon connect every mine in the colony with the shipping port,—and only think what profiles would then be realised. But, not you Londoners profer dealing with Spaniards, Brazilians, and Mexicans, than with your own countrymen. But a time will come, when this province will be thoroughly, unduring the time of the state the last to pay dear for what he, a few years before, might have had at little cost. Talking about English proprietors—I can tell you a good story. Mr. — of Dublin, had send out to his brother-in-law a little money to invest here, which arrived just at the moment when the Burra Burra special survey was taken. He took 60 shares (or thereshoots), which cost if each, heard of it, immediately wrote back strict orders, he sell out instantly; "that he had lost 2000th in a mine in Mixerio, or some other place is South America, and that he was quite sure he would be raised if he kept these shares." Of course 12 months elapsed, between the period of the parentses and the period when the order to sell arrived. These shares were consequently exhibit and patient at 10th order to sell arrived. These shares were consequently exhibit and patient is 10th order to sell arrived. These shares were consequently exhibit and patient is 10th order to sell arrived. These shares were consequently exhibit and patient is 10th order to sell arrived. These shares were consequently exhibit and patiently and the sell of the sel

printors. The large number of miners, with their families, new living at Burenharm, made it impussible for that company to build floomes for thum all—so the miners set to work excavating in the banks of the Buran-Ceek, and in wellting along the top of the bank, you will eas ecores of chimneys sticking out of the ground as it were, which has a cornous effect:

Next in interest in the Kapunda Mine, but there in little to be said about it at present, meet of the shifts are under water. This mine will set under a charm in the control of the con

so, for no good reason that any one could give, one of the most promising mines in the colony is at a stand-still; but this, I understand, will not last long. The last sale of ore from Montacute, of which accounts have been received, was 22L per ton.

The Adelaide Mining Company, who are working on some sections of theirs, near Montacute, have several sets of tributers at work. Their 5L shares are quoted at 4L 10s, but are rising.

The South Australian Company's mineral lands, at Mount Barker, 12,000 acres, bid fair to make up in value for all their sunk capital in former unprofitable land investments. The place where they are at work is called Kanmantoo; they are getting, I hear, 60 tons a week of very good ore.

The Paringa Company consists of the remaining 8000 acres of this survey, and is equally in high repute—the shares being at a premium of many times prime cost; but as none have changed hands for a long time, no quotation can be made. Of the lead mines, little is heard at present—the big copper mines completely eclipse the lead. So much, for the mines in work now, or of old date. In the way of new discoveries, the 200 acres purchased by Capt. Hart, on the sea-shore of Yorke's Peninsula, have caused immense excitement. The Government surveyors did not discover the copper on the ground, and Capt. Hart thus got it at cost price—LL per acre. The copper is pure grey copper ore, averaging 385 per cent; and the lodes run from the land into the sea, or from the sea into the land. The position of the mine bears north-west from the port of Adelaide; it is situated on the eastern shore of Yorke's Peninsula, and ships of 500 or 600 tons can lie within 200 yards of the beach, completely sheltered from the north-west and south-west winds, which are the only winds that blow with strength. This is decidedly the greatest hit for the last few months past. It is understood, that one-third of the property has changed hands, at something handsome.

omething handsome.

The Mount Remarkable special survey contains much indication; it is, owever, looked upon as a failure, and the original shares are at a discount.

The Government will not grant any more special surveys—overything will, in future, be sold by auction; and many longing eyes are cast to the Emu Plains, 100 miles north-west from Adelaide, where a hill of copper exists, which is thought to be far greater than the Barra Barra deposit. A special survey was applied for here long ago, but the Governor will neither grant that, nor sell it in small lots; and the banks have commenced shipping back bullion to London, as there was more money in their coffers than they had employment for. A good many emigrants are now arriving, but the labour bullion to London, as there was more money in their coffers than they had employment for. A good many emigrants are now arriving, but the labour market is as bare as ever: 48 hours after an emigrant ship reaches the wharf, not a man, or woman, is to be engaged. A first-rate mining surveyor would also make a large income here, as a "consulting physician," for the different mines; 50L has been paid, before now, for a day's inspection, and advice founded on such survey.

Immense herds of cattle have been brought over from New Soutfl Wales, in anticipation of the demand for working bullocks for draught—a consequent reduction in the value of stock has taken place, and herds of mixed cattle have been sold for 25s. a head. Provisions, of all kinds, are in great abundance, and at prices which place abundant supplies, of every necessary article, within reach of the commonest labourer's family.

The Royalties Bill is still an open question. The colonists take their land grants, containing the reservations, under official protest; and the Governor continues to advertise land for sale, with those reservations; but the general opinion is, they can never be enforced.

The Madrid mails of the 3d have arrived, by which we learn that the Chamber of Deputies was to sit on the 4th, when it was expected that the reports several committees would be read, and more particularly that upon the regulation of the mines. It is said that the question of salt would be one of these which would provoke an animated debate.

THE FLINTSHIRE MINES.

THE FLINTSHIRE MINES.

SIR,—I have to apologies for infruding on you with this letter, and shall feel much obliged by your giving it insertion in your valuable Journal. I am going to speak of the management of the Flintshire mines, which, I cenfess, was much improved, about 20 or 30 years ago, by a new system being introduced—at first reprobated by the interested, but afterwards approved by all; but, within the last few years, the spirit of infining, the capital and good management, has disappeared, as by magic, and the management of the few mines at work is on the principle of being considered to him as his fee simple, no one knowing what the other is deing—consequently, a man is left out of employment, however good a miner he may be; perhaps, the agent, by himself, or through his friends, working a part of the bargain by wages men. Saying the least-of it, agonts are managers, cashiers, and clerks, all combined in the same person. They are shopkeepers, selling provisions, wearing appared, &c.—solling to their favourite men candles, powder, iron, steel, smiths—work, pick hilts, shovels, and sliovel hilts; in short, every material used by miners, as well as keeping herses for drawing whimseys; and, I believe, the carriage of bowas, and, in many instances, supplying timber, boards, &c., to adventurers—so that it will be immaterial to the men the quantity of materials charged, or the price charged for them, as a price is supposed to be given for the work, to have so much for wages. The practice thus pursued, keeps me and others in the back ground—out of employment; and my friends, shopkeepers, horsekeepers, &c., are much injured by such monopoly; and last, not least, the adventurer, who I cannot think much benefitted by such a system of management, to say nothing of his chance of being a great, a very great, loser thereby. Mines, too, in the neighbourhood, deserving of trial, are left unwrought, in consequence of the lethargy countenanced, and of lords demanding high and rainous royalties—discouraging the spark of

itatic country a great mining one. I pray the time may be hastened, when all labour shall be free, each man having a fair chance, without cousinship, or particulty—mymotto being "fair play,"—A HABUNOMERISE FLEETHINE MINES. Feb. 9.

GREAT WHEAL FREDERICK MINE.

Sin,—My attention has been directed to a letter in your last week's publication, signed "Yox." When I first read that extraordinary production, I considered it would be sufficient were I to reply—"If" Yox." be a shareholder, he could have attended the meeting, and have given, or withheld, his sauction to the arrangements; or, if he be not a shareholder, we will be a sufficient were I to reply—"If" Yox." be a shareholder, he could have attended the meeting, and have given, or withheld, his sauction to the arrangements; or, if he be not a shareholder, we will be a sufficient with the sale of shares in this mine, and to the call now made. I have been ownking, the Wheal Frederick Mine more than two years, individually paying all costs, and developing her resources. About a year ago, I felt disposed to part with one-half the mine, for the purpose of putjing her into full operation. I, therefore, made an arrangement with Mr. William Crossman, who undertook the sell 1000 (2048th) shares, at 2t, per share, from which I was to receive 10004, and Mr. Wm. Crossman 10000/, for his continuous on. The machinery was not to be erected, nor was the mine to be put fully to work, until the 1000 shares I retained, and the remaining 500t was to go against my previous outlay. Mr. Wm. Crossman immediately sold to his friends 200 shares, paying me 300t, and retaining 300t. He then ceased to make any exertion, and a delay of nearly 12 months took place, during which I paid all the costs of the mine, atthough I was entitled, from the day of sale, to call upon each shareholder provided when the sale of her own haves. If then shareholders have been many friends attended. I then resolved to give 500 shares to the mine, and to believe their is yet about 20t owing, and the mine is stop

THE DIVINING ROD

Sir,—In reference to your quotation from a correspondent of the Penzanse Journal, it may be observed, that the writer lays no claim to the title of "Philosopher," except as a "lover of wisdom," which the word literally means, As to a "shock," I said nothing of the kind; and I beg to remind this conferrer of scientific degrees, that there are known to exist powers in Natures, that clude the most recondite researches of the "Philosopher." An electric, thermo-electric, or voltaic current, may affect a muscle without a shock, as well as raise the hair, or radiate fine fleecy substances; but, probably, your correspondent will say, that the "philosopher." alluded to was Mr. Hunt, and not myself. If so, he should look into his "Lindley Murray," and make himself acquainted with the proper application of the possessive and nominative cases; and the third person singular.—A. T. J. Marrix: Penzance, Feb. 7:

THE IRON TUBULAR BRIDGE OVER THE CONWAY.—In our last Number, we inserted a notice of the success of the experiments made for the purpose of testing the strength of this novel structure, in which we stated that, with a load of 300 tons, besides its own weight (1300 tons), the deflection was 3, 4, and 5 in, respectively. As many of our contemporaries have varied considerably in their accounts of the experiments making—a difference in the deflection from 1½ to 11 in, with the above load being stated—we are glad to be able to give the results as stated by Mr. Fairbairn himself, in a communication to a friend, from which the following is an extract:—"We have solved an important problem in practical actence) and, despite the prognostication of some eminent mathematicians, the whole of my experiments at Millwall have been more than realised. On Wednesday last, the tube was suspended upon temporary piers 400 ft. span; and, with its own weight (1300 tons), the deflection did not exceed, but was under, a in. With 300 tons of loaded tracks, the deflection was increased to 11 in—being, as near as possible, in the ratio of 4 in to 100 tons of load. The computed breaking weight of the tube is 2200 tons equally distributed, exclusive of its own weight; and, having its perfect retention of form and great rigidity. I am of opinion that it would sustain 3000 tons before fracture took place. THE IRON TUBELAR BRIDGE OVER THE CONWAY .- In our last Number,

ROYAL COLLEGE OF CHEMISTRY,

THE PRACTICAL COURSE OF SCIENTIFIC INSTRUCTION

In this institution is under the DIRECTION of Dr. A. W. HOFMANN and assistants.

The NEXT SESSION will COMMENCE on MONDAY, the 6th of March, in the MEW LABORATORY, and END on the 31st July.

KING'S COLLEGE, LONDON.—LENT TERM, 1848

OUTLINE OF A COURSE OF LECTURES, TO BE DELIVERED

BY D. T. ANSTED, Esq., M.A., F.R.S., F.G.S., OR OF GEOLOGY TO THE COLLEGE, FELLOW OF JESUS COLLEGE. LECTURES I. TO V .- INTRODUCTORY.

raical Geography, with ref-zence to Geology, and an account of the causes of change citing at present on the earth's surface, and the effects of those causes. study of existing anisasis and vegetables, with reference both to Geology, and to the ctermination of Geological Problems.—Pateconicogy.

LECTURES VI. TO XX.—DESCRIPTIVE GEOLOGY.

ical Maps and Sections : their value and use. n of Rocks into stratified and unstratified—Nature of Stratification—Methods of

Division of Rocks into stratified and unstratified—Nature of Stratification—Methods of determining its direction and amount.

Obscors Rocks.—(L.) Underlaying. (2.) Intrusive—Contents of Igneous Rocks.—Classification of Igneous Rocks.—Methods of Igneous Rocks.—Stramosprinc, or Altered, Rocks.—Their relation both to Aqueous and Igneous Rocks.

Aqueous Rocks.—General principles of Classification.

Palmosoic Period.—Girlan, Devonian: Carboniferous, and Permean series.

Secondary Period.—Triassic series; Lias, Colitic, and Wealden series; Cretaceous series.

Tertiaries Period.—European Tertiaries, older, middle, and newer—Asiatic and American Tertiaries.

Territaries.

Transition from the Tertiary to the Recent period—Condition of the Earth immediately before the introduction of Man.

These LECTURES will COMMENCE on THURSDAY, 24th February, at Nine o'clock, and will be continued every succeeding Saturday, Tuesday, and Thursday, at the same lour. Some extra Lectures, also, will be delivered—due notice of which will be given.

An Examination will be held at the close of the course.

These for attendance, to those who are not members of the class of Applied Sciences in King's College, Two Guineas and A Half.

BIRMINGHAM AND OXFORD JUNCTION RAILWAY. Notice is hereby given, that the next ORDINARY MEETING of the shareholder BIRMINGHAM AND OXFORD JUNCTION RAILWAY will be HELD at Dec's all Hotel, in Temple-row, Birmingham, on Saturday, the 19th day of February, 1848 alf-past Two o'clock in the afternoon.

Hotel, in Temple-row, hirmingman, on sample past Two of clock in the afternoon.

transfer books of the company will be closed from and after the 7th day of Feb.
mill after the day of the meeting.

y papers, in order to be available, must bear a stamp of 2s. 6d., and must be reby the secretary 48 hours, at least, before the time appointed for the meeting.

P. H. MUNTZ, Chairman.

JOHN W. KIRSHAW, Secretary.

34, Bennett's-hill, Birmingham, Jan. 26, 1848.

BIRMINGHAM, WOLVERHAMPTON, AND DUDLEY
RAILWAY.—Notice is hereby given, that the next ORDINARY MEETING of
the shareholders of the BIRMINGHAM, WOLVERHAMPTON, AND DUDLEY RAILWAY COMPANY will be HELD at Dee's Royal Hotel, in Temple row, Birmingham, on
Saturday, the 19th day of February, 1848, at Twelve o'clock at noon.
The transfer books of the company will be closed from and after the 11th day of Feb.
next, until after the day of the meeting.
Proxy papers, in order to be available, must bear a stamp of 2s. 6d., and must be received by the secretary 48 hours, at least, before the time appointed for the meeting.
WILLIAM MATHEWS. Chadrman.

the time appointed for the meeting. WILLIAM MATHEWS, Chairman, JOHN W. KIRSHAW, Secretary,

34, Bennett's-hill, Birmingham, Jan. 31, 1848.

PRISTOL AND EXETER RAILWAY COMPANY.—
Notice is hereby given, that the next HALF-YEARLY GENERAL MEETING
of the proprietors of this company will be HELD, in pursuance of the Act of Parliament,
at the White Lion Hotel, in the city of Bristol, on Thursday, the 3d of March, at Twelve
Yelock, for the election of four directors, in the room of those who retire, and for other
flairs. The chair will be taken at One o'clock precisely.

JAMES W. BULLER, Chairman.

The retiring directors may be re-elected.

The retiring directors may be re-elected.

The transfer books will be closed on Monday, the 21st of February, and not be reopened until after the said general meeting, on the 2d of March.

The dividend and interest for the half-year, ending on the 31st of December, 1847, will be payable to those shareholders who stand registered when the transfer books are closed in the said 19st day of February.

Shares in arrear do not entitle the holders to vote, nor are proxies available, unless odged with the secretary five days, at the least, before the meeting.

Ey order of the board of directors,

Bristol Office, 30, Broad-street, Feb. 4, 1848.

J. B. BADHAM, Secretary.

CALEDONIAN RAILWAY.—Notice is hereby given, that the CALEDONIAN RAILWAY will be OPENED, for PASSENGER TRAFFIC, etween EDINBURGH and GARGOW, and CARLISLE, on TUESDAY next, the 15th objurary current.

By order, J. W. CODDINGTON, Secretary. Edinburgh, Feb. 8, 1848.

CALEDONIAN RAILWAY—LOANS on DEBENTURES.

The CALEDONIAN RAILWAY—LOANS on DEBENTURES.

The CALEDONIAN RAILWAY COMPANY are propared to RECEIVE TEMDERS OF LOANS ON DEBENTURES, in sums of not less than £500, for three or five
years—bearing interest at the rate of 5 per cent. per annum, payable half-yearly, in Edinburgh, Glasgow, London, Liverpool, Manchester, or Bristol.

Tenders to be addressed to this office. Parties may also communicate personally with
Messrs. Foster and Braithwaite, 68, Old Broad-street, London.

By order of the directors,

D. RANKINE, Treasurer,
Caledonian Railway Office, 122, Princes-street, Edinburgh, March 26, 1847.

CLARKE AND VARLEY'S PATENT ELASTIC ATMOS

LARKE AND VARLEY'S PATENT ELASTIC ATMOSPHERIC RAILWAY TUBE.

The PROPRIETORS are now prepared to GRANT LICENSES, or TREAT with RAILWAY COMPANIES and OWNERS of MINERAL, or other PRIVATE RAILWAYS, for
the ADOPTION of the PATENT TUBE.

IMPORTANT IMPROVEMENTS have been recently effected in its CONSTRUCTION,
and the proprietors have caused such experiments to be made on the working of the tube
at Blackwall, by Mr. William Gravatt, in conjunction with their own engineer, as justify
thom in recommending this invention, with perfect confidence, to the notice of the public.
It is one capable of removing the practical difficulties that have hitherto interfered with
the success of the atmospheric principle; and they feel convinced, that, by its means, the
superior advantages of this system of railway propulsion will be fully established.
The EXPERIMENTAL TUBE, which is 15 inches diameter, and above 300 ft. in length,
may now be seen in operation every day, from One till Four o'clock, at the Poplar Station, on the London and Blackwall Railway.

Communications to be addressed to Mr. W. B. Hays, engineer to the proprietors, of
whom any farther information may be obtained, at their office, 31, Parliament-street,
Westminster.—Feb. 5, 1848.

—Feb. 5, 1848.

Westminster.—Feb. 5, 1848.

JOWETT'S PATENT HYDRAULIC TELEGRAPH.
OFFICES—No. 17, WELLINGTON-STREET, STRAND.
(Adjoining the Morning Post and Court Journal.)

PRELIMINARY ANNOUNCEMENT.

In the present important age of mechanical invention and advancement in the various tranches of science, probably one of the most prominent production of fertile genius is hat of instantaneous correspondence by telegraphic means upon railroads, no matter how are distant the transit. Telegraphic communication by electric machinery has already exhibited, upon numerous lines of locomotive traffic, the great advantages derived by the public through the medium of its powerful agency. But, successful as the relegraph mode of correspondence by electric aid may be considered, still greater and far more affective results will be scenared to the public by Jowett's Patent Hydraulic Telegraph. The patentee, in the present limited detail, merely claims public attention to the following items in the way of superiority over the electric telegraph:—1. The economy in the construction of the hydraulic telegraph will be, at least, a saving of two-thirds, compared with the outlay required by the electric, independently of the considerable increase of speed, and the results far more decisive and distinct.—2. No expense whatever (after the first amount for construction) will be necessary to provide for the constitution working of the hydraulic telegraph, it being beyond the possibility of doubt that its action can be deranged, nor can any simospheric changes interfere with, or affect, the success of its aperations.—3. No physical impediment can compote with the laying down and the perpetual use of the hydraulic telegraph—nethed the hydraulic relegraph—nethed perfect action. Detailed printed particulars are in preparation. In the meantime the patentee may be seen daily, from Eleven to Three, at the offices, 17, Wellington-street, Strand, where the models and plans are open to the inspection of the public.

TO RAILWAY ENGINEERS, CONTRACTORS, AND THEIRS.—The ADVERTISER having obtained her Majesty's Letters Patent for an IRON TRUSS BRIDGE, peculiarly adapted, from its great strength and economy, for RAILROADS, is ready to TREAT with such companies, and other persons, as may feel disposed to adopt it. This bridge has been put up in Washington, and two of them (one of 70 feet span, weighing 13 tons) have been erected on the line of the New York and Harlom Railway; they are highly approved of by the directors, and several other companies have, in consequence, expressed their intention of adopting it.

A model can be seen, and further particulars given, either personally or by inter, of application to Mr. S. Moniton, care of the Editor of the Mining Journal, 26, Fleet-street.

CCIDENT AT EUSTON-SQUARE.—The METALLIC

CTEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, as THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY

BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton the 20th; and from Suez on or about the 10th of every month.

For rates of passage-money, plans of the steamers, and to secure passages, apply at the ompany's offices, 51, St. Mary Axe, London.

SWANSEA IRON SHIPBUILDING COMPANY.
BUILDERS OF IRON SHIPS, STEAMERS, BARGES, &c.
BOILERS FOR LAND, MARINE, AND LOCOMOTIVE ENGINES,
TANKS FOR SHIPPING, GASOMETERS, ROOFS, &c.,
SWANSEA.

E AST WHEAL FRIENDSHIP MINING COMPANY, IN THE PARISHES OF PETER-TAVY AND MARY-TAVY, DEVON.

TO BE WORKED ON THE COST-BOOK PRINCIPLE,
"Which exempts shareholders from any liability beyond the amount of their share, and enables them to withdraw at any time, and demand their portion of the value of the mine, by giving notice to the Secretary to that effect."

UNDER THE INSPECTION OF MR. RICHARD EDWARDS, oger of Wheal Franco, Plymouth Wheal Feoland, &c. &c. TREASURER - WILLIAM EALES, Esq., 159, Fench

A Board of Directors will be chosen at the First Meeting of the Shareholders.

EAST WHEAL FRIENDSHIP is a COPPER MINE, lying next adjacent to the wellnown Wheal Friendship, which has been a most profitable investment—returning upknown Wheal Friendship, which has been a most profitable investment—returning upwards of £400,000 to the adventurers, and is at the present time paying large dividends. The lodes are a continuation, running through East Wheal Friendship, for which see the report, furnished by gentlemen, whose practical experience and ability in mining operations are undisputed.

report, furnished by gentlemen, whose practical experience and ability in mining operations are undisputed.

REPORT OF J. H. HITCHINS, ESQ.

At the mine, I met Captains Phillips and Dunn, and surveyed the whole of the sett and the adjoining property, with a view to ascertain how much of the latter is will be desirable for the company to obtain, in addition to what they already are in possession of. It appears from the measurement this day made, to ascertain the extent of the company's set, that it is in length, from one extreme point to the other, lineally, on the course of the lode, about 606 ms., and in width, about 250—that is the eastern aide of the River Tavy; on the western side of the river, the set is less comprehensive; the length of it being about 100 ms., and the width about 50, on the underlay of the lode. In viewing the set generally, I have only to remark, that I consider it one possessing advantages of more than ordinary character, and se a mining investment, as good as any can be. The lode at present in the actic end, now driving cast of the River Tavy, being the large masterly one of Wheal Friendain Mine, which has proved so profitable to the adventurers—from 4 to 5 ft. wide, internities directly one of Wheal Friendain Mine, which has proved so profitable to the adventurers—from 4 to 5 ft. wide, internities directly one of the letter, kindly.

all the other characteristics comprised in the term, kindly.

REPORT OF CAPTAIN RICHARD EDWARDS.

(Of Wheal Friendship, I find, is situated on the banks of the River Tavy, in the parishes of Mary-Tavy, and Peter-Tavy. It is east, on the course of the locas of the Great Wheal Friendship, and the Eastern boundary of that mine is the western of this. (Vide Flan.) The strata, with the exception of hard grey rock, is killas, and the granite is close on the eastern boundary. Three lodes have been discovered, although they are not now open; and a shaft has been sunk on the middle one, on the eastern side of the River Tavy, on a patch of hard rock, from which some good ore was taken; and the situation of the mine is favourable to the production of copper, being near the junction of the granite and Killas, and on the run or course of the Wheal Friendship lodes. It is supposed, the hard rock will disappear, as the workings are extended downwards. On the western side of the river, on the course of the middle lode, there is a very high precipies of this same hard grey rock; but, on the western side, between it and the Wheal Friendship boundaries, there is a change of ground; and, I think, if the lode were opened here, it is very probable that it would be productive. I call this part of the sett a good speculation, particularly as there is an adit already driven in at the base of the precipice, which, I understand, has reached nearly to the opposite side of the hard rock. About 30 fathoms to the north of the middle lode, there is said to be a large lode, producing stones of copper ore near the surface; this is to the north of the hard ground, and in a situation that would warrant being prosecuted.—Horrabridge, January 18, 1848.

EEPORT OF CAPTAIN THOMAS DUNN.

REPORT OF CAPTAIN THOMAS DUNN.

(Of East Wheal Friendship.)

We first commenced driving the adit level east, when we cut a large lode, with fine stones of yellow copper ore; we then sunk an engine shaft to the depth of 50 fathoms through a very promising lode, 10 feet wide. This lode was thought by all mining agents, to be one of the best they ever saw-yeleiding not less than 10 tons of mundle, tin, and copper, mixed, to the fathom. In the 20 feet fathom, the lode divided—one part going down right, the other underlaying north, about 2 feet in the fathom. I should now recommend sinking the engine-shaft deeper, when I have every reason to believe that we shall cut the Wheal Friendship lode. You can see how much we have sunk and driven by the plan sent. I can only say, it is a very good investment, and I hope you will save me a few shares. I have sent specimens (which may be seen at the office), from the lode; and there is, at least, one ton of good ore at the surface.—Tavisice, Jan 6.

N.B.—The foregoing reports are condensed, but the originals can be seen at the office.

East Wheal Friendship is divided into 1024 shares, depost 3t. per share—2t. of which goes for the purchase of the sett, and for work done (vide plan); and 1t. into the hands of the treasurer, towards the working. Certificates, containing five shares each, will be issued to each shareholder, which must be signed by the treasurer and secretary, and no shares will be retransferred, without the delivery of the said certificates, bearing the reindorsement of the holder. The books of the company will, at all reasonable times, be open to the inspection of the shareholders.

Application for the remaining shares to be made either to the secretary, at the office of the company, No. 48, Threadneedle-street, London; the treasurer, William Eales, Eaq., 159, Fenchurch-street; Mr. James Lane, mining share agent, 76, Old Breadstreet; the solicitor, C. V. Bridgeman, Esq., Tavistock; or through any respectable broker—Reports from other mining agents can be seen at the office.

TRONG MIXING PIG-IRON.—The YSTALYFERA
IRON COMPANY beg to solicit ORDERS for their ANTHRACITE PIG-IRON.
This from mixes well with Scotch pig—imparting to it strength and elasticity, and receiving from it a portion of its softness and fluidity. No. 3 Pig is recommended for mixing with soft iron—Nos. 1 and 2, for machinery castings, requiring great soundness and strength. At this period, when cast-iron is so much employed in the construction of bridges and other buildings, requiring all the strength and elasticity which the best mixters of metal will afford, it may be interesting to call attention to the characteristics of ANTHRACITE PIG-IRON, as arecorred on by that great practical authority, the late DAYID MUSHER, ESG., M.I.C.E.:—
"It greatly exceeds, in strength, in deflective powers, and capacity to resist impact, any iron at this time manufactured in the United Kingdom."
"It now only remains for me to mention a property peculiar to this iron, which mas

iron at this time manufactured in the United Kingdom."

"It now only remains for me to mention a property peculiar to this iron, which was noticed at the time I made the trial experiments, four years ago, but which has been more fully developed in those more recently made. The property referred to is one of gress springiness, or elasticity, which communicates a tendency to the bar, in deflecting and breaking, to resume its rectangular form. Bars that had obtained a permanent set of 3-10ths, when afterwards broken, presented but a slight deviation from a right line; and in no case, did the curvature exceed one-fourth of a tenth."

"It was also remarked, that most of the fractures, in breaking, presented a regularing of grain throughout, resembling the structure of unhardened steet."

nat most of the measurement of the interest of the structure of sushardened steel."

THE YSTALYFERA IRON COMPANY,

Near NEATH, SOUTH WALES Dated June 22, 1847.

HOT-BLAST WITHOUT COAL, LABOUR, OR REPAIRS.
DIXON AND BUDD'S PATENTS.
Apply for particulars, or to inspect the process in operation on six blast-furnaces, to
Dated June 22, 1847.

Dated June 22, 1841.

AMBERT'S PATENT FLEXIBLE DIAPHRAGM

WATER VALVES, or TAPS.—A certain PREVENTATIVE of LEAKAGE, susceptible use of the metal plug-tap, which is so continually out of order. They are re durable, less expensive, and being nearly frictionless, are opened and closed with refect ease. They have been tested under various pressures, and have given the greatest isfaction.—MANUFACTURED ONLY by the Patentees,

THOMAS LAMBERT & SON, Brass and Cock Founders,

30, New-cut, Blackfriars-road.

FLEXIBLE HOSE-PIPES FOR LOCOMOTIVE ENGINES, RAILWAY CRANES, FIRE-ENGINES, GAS, &c.
PATENT VULCANISED INDIA-RUBBER HOSE-PIPES AND TUBING OF EVERY DESCRIPTION.

These pipes are made to stand hot-water without injury—are very superior to leather pipes, or the common India-rubber pipes; and, as they do not become hard or stift in the lowest temperatures, or require any application when out of use, are particularly well adapted for fire-engines.

Adapted for fire-engines.

FLEXIBLE TUBING, of every description, for gas, chemical purposes, &c.

FLEXIBLE TUBING, of every description, for gas, chemical purposes, &c.

VULCANISED INDIA-RUBBER WASHERS, all sizes, for steam and hot-water joints,

JAMES LYNE HANCOCK,

TO ENGINEERS AND BOILER-MAKERS AP-WELDED IRON TUBES, FOR MARINE AND LOCOMOTIVE STEAM-BOILERS, TUBES FOR STEAM, GAS, AND OTHER PURPOSES, ALL SORTS OF GAS FITTINGS.

THE BIRMINGHAM PATENT IRON TUBE COMPANY,

THE BIRMINGHAM PATENT IRON TUBE COMPANY,
42, CAMBRIDGE STREET, BIRMINGHAM, & SMETHWICK, STAFFORDSHIRE,
MANUFACTURE BOILER and GAS TUBES, under an exclusive License from Mr. R.
Prosser, the patentee. These tubes are very extensively used in the boilers of marine and
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WORKS—SMETHWICK, STAFFORDSHIRE.

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PATENT IMPROVEMENTS IN CHRONOMETERS,
WATCHES, AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Cockspur-street,
watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness
Prince Albert, begs to acquaint the public, that the manufacture of his chronometers,
watches, and clocks, is secured by three separate patents, respectively granted in 1836,
1840, 1842, Silver lever watches, jewelled in four holes, 6 gs. aceh; in gold cases, trom
£8 to £10 extra. Gold horizontal wa ches, with gold dials, from 8 gs. to 12 gs. each DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now ready for delivery Pampillets containing a description and directions for its use is, each, but fo customer arrangement.

CALDWALL'S PATENT SELF-FLEETING WINDLASS, CAPSTAN, AND RIDING BITS COMPANY.

OFFICES—No. 73, KING WILLIAM-STREET, LONDON.

The patronage of the Lords of the Admiralty and the Hon. Trinity Board, toget estimonials of several of the most practical, scientifies and industrial naturisal manignous. As a serious properties of the marking guaranteed the importance to the marking world of the abound invention, it is now proposed to carry out the manifecture of the several prices—WINDLASSES, CAPSTANS, RIDING BITS, &c., by means of a citouo,000, to be raised in 5000 shares, of £20 each, and to be conducted by a color formed for the purpose. £100,000, to be raised in to be formed for the purpe

The above inventions, in addition to their superiority over the old windlass, c. &c., have the recommendation of greater economy, as they can be supplied at a lessification as very handsome profit, and, consequently, a large return to sharehold Models may be seen in operation—prospectuses obtained, and every information by application at the office, 73, King William-street, City, from Elevent ill Four dair orders are received there and at the manufactory, Bell Wharf, Shawell.

NEW SMITHFIELD CATTLE MARKET & AB ATOIRS COMPANY. Capital £400,000, in 20,000 shares, of £20 each.

Deposit 2s. per share, until complete registration, when a call of £1 per sha made, which will be the only call this session.

The Bill to Incorporate this Company has passed Standing Orders without opposition; and all further application for shares must be made before the 18th inst., on which day he allotment must be made. Prospectuses, with names of directors, and maps, showing the intended sites narket and abattoirs, with every other information, may be obtained at the offices ompany.

By order, CHARLES NEWTON, Secret 4‡, Warnford-court, Throgmorion-street, Feb. 9, 1848.

ONDON AND PROVINCIAL DETECTIVE ASSOCIA-TION, FOR THE PROTECTION OF TRADE.

TION, FOR THE PROTECTION OF TRADE.

No. 39, SOUTHAMPTON-BUILDINGS, HOLBORN, LONDON.

OFFICE HOURS: TEN TO FOUR.

The object of this institution is to furnish every information (which may be obtained by subscribers only) respecting all parties, in any capacity whatever, avoiding their creditors, under any circumstances; also, in providing every species of information calculated to protect Bankers, Morchants, Tradessmen, Companies, Institutions, Assurance Offices, Loan Societies, Auctioneers, Landiords, Tenants, &c., in such a manner hitherto unatempted by any kindred society.

Subscribers may be preserved from losses through fraud of all kinds, by previous application at this office. They are also requested to make every communication in their power that may tend to protect the members, which will be considered strictly private, and, at the same time, deemed a favour.

Persons wishing to become members of this association, must apply, by letter only, addressed (pre-paid) to the secretary, who will forward the rules.

Subscribers only are eligible to apply for any information—the terms of which are

Subscribers only are eligible to apply for any information—the terms of which are £1 is. per annum—10s. 6d. in advance.

H. E. NEWMAN, Secretary.

NATIONAL DISINFECTED AND DRY MANURE COMPANY.

OFFICES—No. 7, BANK CHAMBERS, LOTHBURY.

[REGISTERED PROVISIONALLY.]

Capital £200,000, in 20,000 shares, of £10 each.—Deposit £1 per share.

all will exceed 5s. per share, and the liability of shareholders will be limited to the of their respective shares.

of their respective shares.

PROVISIONAL COMMITTER.
GERARD BARRY, M.D., Charles-street, St. James's-square.
JAMES ORGILL, Esq., Birmingham.
HOMAS BALDWIN, Esq., Birmingham.
JOSHUA E. COOPER, Esq., West Ham, Sussex.

The object of this company is to collect together the animal and vegetable refuse of the animal anim

The object of this company argued argued by the convert members are and populous towns, and subsequently to convert members argued populous towns, and subsequently to convert members argued to the company's process all decomposed substances, whether animal or vegetable. By the company's process all decomposed substances, whether animal or vegetable stimulant.

A manure, somewhat similar, has for some time been manufactured by a prosperous company in Paris, under the commercial firm of "Baronet and Co." Their last report states, that "crops were obtained incomparably finer, and more abundant, than by the use of any other manure.

The cost of preparation is trivial, in comparison with any of the present methods of dress—the cost of preparation is trivial, in comparison with any of the present methods of dress—the cost of preparation is trivial, in comparison with any of the present methods of dress—the cost of preparation is trivial, in comparison with any of the present methods will re-

thates, that "crops were commented incompanion, with any of the present method ing. The committee, therefore, have no hesitation in affirming, that the profit alise the most sanguine expectations of shareholders.

The primary operations of the company will commence in the town of Birmis Samples of the manure may be seen at the offices.

nfluential list of patrons and directors will shortly be advertised; meanwhile ons for shares, agencies, &c., may be addressed to

JAMES H. KENWORTHY, Secretary pro tem

NATIONAL DISINFECTED AND DRY MANURE COMPANY.—Notice is hereby given, that APPLICATIONS for SHARES in this 7, Bank Chambers, Feb. 10, 1848.

GRICULTURIST CATTLE INSURANCE COMPANY, 8, CHATHAM-PLACE, BLACKFRIARS, LONDON (Registered under 7 and 8 Vic., cap. 110.) Subscribed Capital—£250,000. 60

This company was established for the PROTECTION of FARMERS and AGRICUL-TURISTS, against LOSS BY DISEASE or ACCIDENT among their LIVE FARMING STOCK, in June, 1845; and, on the 31st December, 1847, had issued 20,000 agreements, and paid, upwards of £100,000 for losses.

This being a Proprietary Company, with a subscribed capital, insurers incur no lia-lity beyond the amount of their premiums, and are put to no additional expense.— hree-fourths of the insured amount is paid in case of loss.

LIFE INSURANCE DEPARTMENT.

ces on Lives are effected—Annusties and Endowments granted—and every bran urance conducted on the most liberal terms. Farmers and agriculturists will fin moderate in its rates, and peculiarly adapted to their position and circumstance Annual Premiums for the Insurance of £100 on a Single Life.

Age	Whole of Life without Profits.			Who	le of	Life	For the term of								
B. Day.				with Profits.			One Year.			Five Years.					
15	£1	11	3	£1	13	7	£0	16	10	£0	18	8			
20 25	1	15	10	2	17	10	1	4	3		4	8	I		
30	2	5	7	2	9	-1	1	5	9	1	6	4	di		
40 50	3	4	7	3	11	4	1 2	9	6	1 2	5	7			

Application for prospectuses, and every other information, may be made to WILLIAM FENTON, Esq., Manager, Or to the Local Apparts.

NATIONAL LOAN FUND LIFE ASSURANCE SOCIETY,

Capital £500,000.—Empowered by Act of Parliament.

This institution embraces important and substantial advantages with rest Assurances and Deferred Annuties. The assured has, on allocations, the porov, without expense or forfeiture of the polley, two-thirds of the premium table); also the option of selecting benefits, and the conversion of his interestication of the conveniences or necessity. 64

DIVISION OF PROFITS.

arkable success and increasing prosperity of the society has enable the last annual investigation, to declare a fourth bonus, varying from the premiums paid on each policy effected on the profit scale. EXAMPLES.

dge	Sum.	Pn	em.	Year.	Bonus added.			Cash.			of Premium.				Borrow.		
60	£1000	20	3.4	1837 1838 1839 1840 1841	165 116	11 7	0 10 6	87 74 54	1 0	11 4 9 10 0	11	0 10 3 18 10	1 10	1 3 S C C	£445 395 346 296 247	11 2 13	0-846

The division of profits is annual, and the next will be made in De

A NOTHER CURE OF ASTHMA, of FOURTEEN YEARS'
STANDING, by Dr. LOCOCK'S PULMONIC WAFERS, Dade Holyhead-road,
Wednesbury, Sept. 6, 1847. "Sta,—When I received the first box of Dr. Locock's Water
from you, I was labouring under one of those attacks of asthma, to which I have been
subject now for about 14 years. My breathing was overy difficult, that I expected every
inspiration would be my last. As for sleep, that was impossible, and had been so for several weeks. The first dose (only two small wafers) gave use great relief; the second
more so—in short, the first box laid the groundwork for the cure, which only four boxes
have effected, and I am now quite well. (Signed)—G E. Bignell.—Witness, Mr. F. C.
Ladbury, surgeon, &c. To singers and public speakers they are invaluable for strengthening and clearing the voice. They have a pleasaint taste.—Price is, 14d., 2s. 9d., and
11s. per box. Agents: Da Silva and Co., 1, Bride-lane, Ficet-street, London.—Sqd by
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